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Season of 1918

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O. H. B.

WISEMAN-DOWNS CO., INC.

34 EAST PRATT ST., BALTIMORE, MD.

We Deliver Free in the United States and Possessions by Parcel Post or Express To any Exp. Office at Our Option

All Vegetable and Flower Seeds by the Packet, Ounce and $\frac{1}{4}$ -Pound; Lawn Grass Seeds by the Quart. Purchasers Pay Transportations on Half Pound, Pounds, Pints, Quarts, Half-Pecks, Pecks, Bushels and Barrels—Also on Farm Seeds, Tools, Implements, Requisites, Fertilizers and Insecticides. If wanted by Parcel Post, add postage as noted for these. POSTAL WEIGHT OF BEANS, PEAS AND CORN ONE POUND PER PINT.

REGARDING PARCEL POST AND EXPRESS

Seeds, Plants, Bulbs and Roots are now admitted to the Parcel Post at Zone rates. As there are eight Zones in the United States, with varying rates, the difficulty of naming in advance a delivered price by mail on heavy Seeds, such as Peas, Beans and Corn, is apparent, also on Plants, Roots and heavy Bulbs.

The express companies adopted a new set of rates giving a reduction on Seeds, Plants, Bulbs, Roots and Fertilizers, so that it is desirable to use the express when possible. For the guidance of our customers we append a table of a few of the leading cities showing the Zones, Parcel Post rates, uninsured, for 20 lbs., the limit of weight beyond the 2d Zone, and the express rate for the same weight. As a receipt is obtained for each shipment by express, it is practical insurance without extra cost, the insurance by Parcel Post being 5c. per package extra. On shipments weighing more than 20 lbs. the difference in cost is greater in favor of express. *The charge is the same collect or prepaid.*

The express companies collect carrying charges without extra cost. The collection of postage by Parcel Post entails additional cost, so we recommend the use of the express wherever possible.

DOMESTIC PARCEL POST RATES				First Pound (over 8 oz rates 1 lb)	Each Additional Pound or fraction
Within the U. S. and Possessions; Alaska, Canal Zone, Guam, Hawaii, Porto Rico and the Philippines.					
First Zone within	50	mi. of Balto. City		5c	1c
Second " "	50 to 150	" " "		5c	1c
Third " "	150 " 300	" " "		6c	2c
Fourth " "	300 " 600	" " "		7c	4c
Fifth " "	600 " 1000	" " "		8c	6c
Sixth " "	1000 " 1400	" " "		9c	8c
Seventh " "	1400 " 1800	" " "		11c	10c
Eighth " all over	1800	" " "		12c	12c

BUSINESS RULES AND PROCEDURE

PLEASE ORDER EARLY, thus enabling us to forward promptly—as a rule the day after the order is received. During the March and April rush we may fall a day or two behind; if any greater delay is likely we will advise. If goods ordered do not arrive in a reasonable time, send a copy of the order with letter of inquiry. This will be a great help in expediting adjustment.

THE ORDER BLANKS accompanying this catalogue will be convenient for customers and facilitate our filling orders (extra ones mailed on request).

PATRONS IN SIGNING ORDERS are requested to use prefix Mr., Mrs. or Miss. Married ladies should invariably use husband's initials.

WE GUARANTEE THE SAFE ARRIVAL in United States of all goods forwarded by express.

TO PREPARE A COLD FRAME

The Cold Frame is simply a frame set on the ground, no bottom heat being applied. It is banked up on the outside during the Winter with marsh hay, straw or coarse litter. The soil is prepared by forking in and thoroughly mixing to the depth of 10 or 12 inches a liberal quantity of old, well-rotted manure. The manure of an old hotbed is good for the purpose. The frame is prepared in the Fall, and young Cabbage, Cauliflower and Lettuce plants are set out in it in time to get well established before very cold weather. Cauliflower and Cabbage should be set down to the first leaf and the soil made firm around the plants. The seed is usually sown, in this vicinity, from the 15th to the 20th of September. The young plants will be ready to transplant in

DIRECTIONS FOR MAKING A HOTBED

In this vicinity from the first to the latter part of March is quite early enough to make a Hotbed. The time must vary according to the latitude. Provide a quantity of fresh horse manure from the stables, and add to this, if they can be had, one-third to one-half its bulk of leaves. Mix them thoroughly, tramping down the mass in successive layers and form into a large pile, so that fermentation will proceed even in severe cold weather. In two or three days fermentation will be apparent by the escape of steam from the heap. Now turn again, and allow the heap to remain two or three days longer, or until the second fermentation commences. Make an excavation or pit $2\frac{1}{2}$ feet deep and of a size suited to the number of plants required. The pit will be better if built up of brick. It should be made in some dry, sheltered spot, facing the south or east, if possible. Hotbed sashes are usually 3x6 feet, and one or two sashes will give early plants enough for a small family. The frame for sashes should be 18 inches high at the back and 12 inches in front, which will give the proper slope to catch the sunlight. Cross-pieces should be placed for the sashes to slide on, to facilitate opening and shutting the frames. When everything is ready, the manure is placed in the pit

WE FORWARD AS CUSTOMER DIRECTS by Parcel Post, express, freight or steamer, in accordance with our offers elsewhere in this catalogue. When no shipping instructions are given, we send according to our judgment.

ALWAYS GIVE FULL ADDRESS—This is very important, yet is sometimes omitted by customers; in fact, some orders and letters reach us lacking both name and address.

REMITTANCES may be made by Express Money Order, P. O. Money Order or Bank Draft; if stamps or cash send in a Registered Letter. We must decline sending goods C. O. D. unless 25% of their value accompanies the order. Plants we do not ship C. O. D.

ACCOUNTS—Parties having no account with us—who order goods without remittance—must furnish satisfactory reference. Baltimore city reference preferred on account of the shorter delay pending investigation.

WE MAKE NO CHARGE FOR SHIPPING AND CARTING of goods to any railroad station, steamship line or express office in Baltimore City proper.

WE MAKE NO CHARGE FOR PACKING, except special for foreign shipments, as tin-lined cases, double sacks, etc., then we charge cost. Cloth bags we charge for, viz.: 1 peck, 10c.; $\frac{1}{2}$ bushel, 12c.; 1 bushel, 15c.; 2 bushels, 28c. All Grass Seed bags are furnished free excepting for Timothy and Clover.

QUESTIONS AND CORRESPONDENCE—We endeavor to answer promptly all letters of inquiry—which should be on separate paper from orders—but we cannot undertake the planning of gardens and grounds.

ERROR IN THE FILLING OF ORDERS—We use the greatest care in filling, checking and packing orders. Yet should anything be omitted we will promptly forward when advised. Keep a duplicate copy of your order for comparison.

WE GIVE NO WARRANTS, EXPRESS OR IMPLIED, as to description, quality, productiveness, or any other matter of any Seeds, Bulbs, Roots or Plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

GARDENERS' AND FARMERS' SITUATIONS.—We have at all times the names of practical gardeners and farm managers in want of situations on our books. If parties desiring such will write us, we shall be glad to put them in communication with men that we deem suitable. To aid us in making a selection we ask full particulars. We make no charge for this service.

TESTIMONIALS FROM CUSTOMERS—We are always pleased to hear from our customers regarding the results of their gardens. We appreciate the number of unsolicited testimonials we receive annually, and are glad to publish as many as space will permit. Photographs of gardens, and particularly of individual vegetables, flowers or fruits, are always very gladly received by us.

about 25 to 30 days. During cold nights and stormy days the beds should be closely covered with the sashes, and these further protected by straw mats or shutters. Cauliflower needs more and closer protection than Cabbage, and it is rather more tender. During mild days admit air freely, the object being to keep the plants in a dormant state, without actual freezing, so that when Spring comes they are in a forward state for setting out early crops. Seeds of Cabbage, Cauliflower, Lettuce and Radish may be sown in a Cold Frame in the Spring from the last week in February to the first week in March. The frame should stand in a warm and sheltered spot, and be kept from freezing by mats or a thick covering of straw during cold nights.

and trodden down firmly in layers to the required depth, 2 to $2\frac{1}{2}$ feet. Then put on the sashes and keep the pit closed until the heat arises. At first it will probably be 100 degrees or more, which is too hot to sow the seed in, but in two or three days it will subside to 90 degrees or a little less, when the soil may be put on to the depth of 6 to 8 inches. The heat may be readily ascertained by plunging a thermometer into the manure. The soil should be of well-rotted sod (or common garden soil will do), mixed with about one-third of fine old manure, and in this the seeds may be sown thinly in drills 2 to 3 inches apart, and afterwards (as soon as out of the seed leaf) either thinned out or else transplanted to another frame. Air must be given every mild day by raising the sashes at the back. Water with tepid water whenever necessary, and during cold nights and snow-storms keep covered with mats or board shutters. Tomatoes, Peppers and Eggplants should be sown in a separate frame from Cabbage, Cauliflower and Lettuce, as they require more heat. The same directions may apply to Hotbeds made on the surface of the ground, except that the manure should be at least a foot wider on all sides than the frame.

BEST
BY
TEST

WISEMAN-DOWNS CO., INC. FARM AND GARDEN ANNUAL

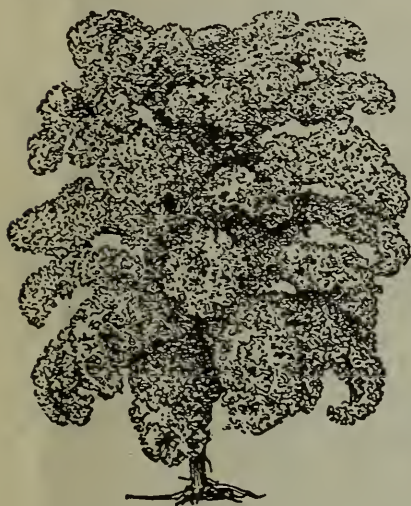
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ARTICHOKES

GREEN GLOBE—Plant vigorous and hardy, leaves silver gray, ribs reddish at the base and without spines. Buds large, nearly round; scales pale green, shading to violet at the base. No other variety has such a broad, thick and fleshy receptacle or bottom. Height of stem about 2½ feet. Pkt., 10c. Oz., 35c. ¼ Lb., \$1.25. Lb., \$1.00.

ARTICHOKE ROOTS

JERUSALEM—Sometimes called the American Artichoke. Used for table and stock feeding. Ready in April. Pk., 75c. Bu., \$2.50.



BROCCOLI

(German, Spargel Kohl)

The heads resemble somewhat a coarse cauliflower and the culture is the same in all essentials as for that vegetable. Broccoli is well adapted only to those sections where the season is long, cool and rather moist. One of the most valuable features is that it withstands greater extremes of temperatures than Cauliflower.

EARLY PURPLE CAPE. Pkt., 10c. Oz., 40c.

LARGE EARLY WHITE—Pkt., 10c. Oz., 40c.

BORECOLE, OR KALE

Sometimes called Broccoli by the market gardeners. This is one of the most delicious of all Winter Kales. Sown in May, and transplanted to stand over Winter. Pkts., 5c and 10c. ¼ Lb., 50c. Lb., \$1.50.

BRUSSELS SPROUTS

This vegetable is used in the Fall and early Winter and by some considered more tender and delicious than any cabbage. The plant resembles the cabbage, the edible part being the numerous very small heads or sprouts, an inch or two in diameter, formed on the stalk at each leaf joint. Culture is the same in all essentials as the cabbage, except the leaves should be broken down in the Fall to give the little heads more room to grow. Pkts., 5c and 10c. Oz., 20c. ¼ Lb., 60c.

CHICORY

Sow Chicory seed as early in Spring as the ground can be worked, in drills ½ an inch deep and 15 inches apart, and in good mellow soil. The after culture is the same as for carrots. In the Autumn the plants will be ready for bleaching, when it is used as a salad. The dried roots of this variety are also used quite extensively as a substitute for and an adulterant of coffee. 1 ounce is sufficient for 100 feet of drill. Pkt., 10c. Oz., 20c. Lb., \$1.00.

ASPARAGUS

BONVALLET'S GIANT ASPARAGUS—In 1898, when nearly every plantation of asparagus in the country was destroyed by rust, there was found by a Chicago gardener, one perfectly healthy plant in a field of the celebrated Giant Argenteuil variety. This plant was carefully saved and was the progenitor of what is now called Bonvallet's Giant. As will be inferred, this sort is practically rust proof. Besides this it has no superior for color, size, rapid growth, etc. Scarcely any other sort is used in the immense plantations around Chicago. Prices, by mail, postpaid: Pkt., 5c. Oz., 10c. ¼ Lb., 25c. Lb., 90c.

ASPARAGUS—Continued



This can be grown from seeds or roots, the latter preferred. It is one of the earliest and most delicious of Spring vegetables. Seed should be sown thinly in early Spring in rows 1 foot apart. Thin out the weakest plants so the remainder will be 4 inches apart. When 1 year old transplant in the permanent bed, from where it can be cut 3 years later. One ounce of seed will sow about 60 feet of drill. About 400 plants to the ounce. Asparagus may be grown in almost any soil or situation but special success is attained in thoroughly enriched, deeply dug sandy loam. Beds cured for improve with age, lasting for many years.

PALMETTO ASPARAGUS—This is considered one of the best sorts. A large, dark green variety of vigorous growth, having pointed tips. Very early and prolific. Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 50c.

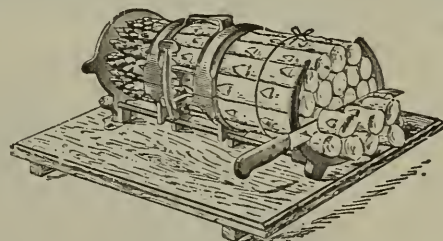
MAMMOTH WHITE—A distinct variety, producing shoots which are white and remain so as long as fit for use. Vigorous and robust in habit; grows large shoots. Needs no earthing up. Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 50c.

CONOVER'S COLOSSAL—Large and rapid grower of excellent quality. Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 50c.

BARR'S MAMMOTH—A variety producing heavy, stout spears of delicious flavor; the growth remains green when cooked; a very popular sort. Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 50c.

GIANT ARGENTEUIL—A French white sort. Very prolific. Large white shoots. We consider it superior to Conover's Colossal. Pkt., 5c. Oz., 10c. ¼ Lb., 25c. Lb., 60c.

Asparagus
Butcher, \$2.25
Asparagus
Knives, 30c



ASPARAGUS ROOTS

We make a specialty of growing Asparagus Roots, taking care to have each variety true to name. Can supply any quantity in Spring and Fall.

	Per 100	Per 1,000
BARR'S MAMMOTH.....	70c	\$1.50
PALMETTO	70c	4.50
MAMMOTH WHITE.....	70c	4.50
CONOVER'S COLOSSAL.....	70c	4.50
GIANT ARGENTEUIL	75c	5.00

We handle a full line of Cords, Twines, Raffia, etc., for tying Asparagus and other vegetables.

PRICES ON CORD

3-Ply Fine Cotton Cord.....	28c lb.
2-Ply Coarse Cotton Cord.....	25c lb.
2-Ply Jute Twine.....	22c lb.
Raffia (20c lb.).....	75c 5 lbs.

Prices on larger quantities on application.

All Prices Subject To Change Without Notice

GREEN POD BEANS—Dwarf

CULTURE—Sow in rows two feet apart, using about 1 quart to every 100 feet of drill. Keep the soil well stirred between the rows. Plant when all danger of frost is past, in succession, once every week until eight weeks before frost.



Stringless Green Pod.

The stringless green pod is fast becoming one of the most popular beans in America. In earliness it is in the lead, in quality it is unexcelled, and as a cropper it is unrivaled. It is stringless in reality as well as in name. It is an abundant cropper, and the pods are full, round, fleshy and nearly straight. In length of pod it averages a little longer than Valentine, light green in color, and extremely handsome on the market bench. Quality is all that can be desired, so that for home use it is just the thing, and as it is a great cropper, market gardeners everywhere are finding it very profitable.

We earnestly recommend it both for market and home use. It promises to almost displace the Valentine. Rapidly becoming a favorite with the trucker and packer. Pt. 30c. Qt., 60c. Pk., \$4.00. Bu., \$15.00.

DWARF HORTICULTURAL OR CHERRY—Vines very productive, compact, upright, with large leaves. Pods medium length; cylindrical, curved, with splashes of bright red on a yellowish ground. Pt. 20c. Qt. 35c. Pk. \$2.50. Bu. \$10.

BLACK VALENTINE—A splendid Green String Bean, with extra long, well formed pods; tender, early and delicious; very prolific and profitable to grow. Pt., 20c. Qt. 35c. Pk., \$2.50. Bu., \$8.50.

BOUNTIFUL—This new green podded Bush Bean is a heavy cropper and very early, of fine shape, stringless, and good quality. Its hardiness and great productiveness make it one of the very best Bush Beans. Pt., 15c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

EXTRA EARLY REFUGEE—Very much earlier than the Old Style Refugee, or 1000 to 1, being fit to eat in 48 days from planting. More dwarf and compact in growth, while the pods are round, solid, tender and of excellent quality. Pt., 15c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

REFUGEE, OR 1000 to 1—The vines are large, spreading, exceedingly hardy, with small, smooth leaves; very late, and bear long; cylindrical green pods of excellent quality. Highly esteemed for late planting and for use as pickles. Pt., 15c. Qt., 25c. Pk., \$2.25. Bu., \$8.00.

EARLY MOHAWK—One of the oldest and best known sorts. The pod is green, thick, flat in shape, of fair quality, developing a slight string as it matures. Is ready to pick 48 days from planting, and will resist a slight degree of frost very successfully. Pt., 15c. Qt., 25c. Pk., \$2.35. Bu., \$8.00.

LONG YELLOW SIX WEEKS—The vine is large, vigorous, branching and productive, with large leaves. Pods long, straight, thick, flat in shape; green in color, of good quality when young and fair as they near maturity. Is ready for picking 45 days from planting. Pt. 15c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

GIANT STRINGLESS GREEN POD—An exceedingly productive and very handsome sort. Vines vigorous and spreading. The pods mature a few days later than those of Stringless Green Pod, average about 1/4 inch longer and more nearly straight. The quality is very good for home use; suitable also for the market. Pt., 30c. Qt., 60c. Pk., \$4.00. Bu., \$15.

BEST OF ALL—This is an exceptionally good variety for home or market garden. Pods are about 6 inches long, fleshy and of good quality. Stringless, early and prolific. Pt., 20c. Qt., 30c. Pk., \$2.50. Bu., \$10.00.

MAY QUEEN—Each season this sort is becoming more extensively planted by growers for the earliest market. Will stand more frost than any other Bean; is earlier than the

Valentine, enormously productive; makes round, straight, tender pods of an attractive appearance. Pt., 20c. Qt., 35c. Pk., \$2.50. Bu., \$8.50.

LONGFELLOW—Extra early, very prolific, tender delicious quality. The Longfellow is an ideal snap bean, a prolific producer of perfectly round, straight, solid, fleshy pods, averaging 6 1/2 inches long, exceedingly tender and brittle. Plants are of robust, compact habit, a very heavy cropper. Pt., 20c. Qt., 35c. Pk., \$2.50. Bu., \$8.50.

WISEMAN-DOWNS CO.'S NEW PROLIFIC—A new prolific long podded variety. Pods brittle and entirely stringless, produced on heavy vines throughout a long season. For all purposes. Pt., 20c. Qt., 35c. Pk., \$2.50. Bu., \$8.50.

WHITE MARROWFAT—Mostly planted for Winter use as a dry bean. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

NAVY OR PEA BEAN—The standard Shell Bean; very prolific. Pt., 25c. Qt., 45c. Pk., \$3.00. Bu., \$10.00.

EXTRA EARLY RED VALENTINE.

A carefully selected stock of this well-known variety. Its popularity is due to the fact that it is one of the earliest sorts, maturing often in 45 to 50 days. It can withstand early slight frosts without injury; its foliage is immense; it always produces a heavy crop of long, round deep-colored pods, which, if wanted in a tender stage, should be picked while young. In this condition they are absolutely stringless. On account of its prolific habit and large pod, it is desirable for market purposes, while for the home garden few can equal it. Pt., 15c. Qt., 25c. Pk., \$2.00. Bu., \$7.50.



Extra Early Red Valentine.

Our Seed Beans are grown especially for seed purposes, and are carefully selected for purity and yielding qualities. The growing crops are carefully rogued each season and are consequently free from disease or other faults often found in seed offered at a low price. Seed that is not bred for yielding qualities is productive of a heavy loss by reason of the vines throwing few pods and few beans in the pod.

BEANS—Wax Podded

DAVIS WAX—The most productive wax Bean in cultivation. The vine is rustless and very vigorous, bearing its pods near the center in clusters. The pods are invariably long, white straight and handsome and when young are brittle, crisp and tender. Seed kidney shape, clear white and excellent for baking. One of the best for shipping as snap beans and of the greatest value as a market variety. The length uniform, perfect shape and fine color of the pods and the clear white seed, make this one of the best for canners. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.



Prolific German Black Wax.

BEANS—Wax Podded

CURRIE'S RUSTPROOF BLACK WAX—The earliest. Habit, upright and robust, holding their pods well from the ground. Foliage remarkably vigorous and healthy. Pods long, flat and straight; beautiful golden color; unequalled for productiveness. Crop failed.

PROLIFIC GERMAN BLACK WAX—A well-known, popular variety. The most striking feature of this variety is its habit of ripening a large proportion of the crop earlier than other varieties. This fact is of great value to market gardeners and all who depend on being first on the market. Dwarf bush growth and very prolific. This is one of the earliest. Pods 4 to 5 inches in length, usually curved, quite round; meaty, brittle and stringless; deep golden yellow, of excellent flavor. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

WARDWELL'S KIDNEY WAX—Strong, upright bush. growth, 15 inches in height; very productive. Pods straight, fleshy, 5 inches in length and one-half inch broad. A rich, golden yellow, brittle and quite stringless, even when fully developed; of rich, luscious flavor and are exceedingly brittle.

A great favorite with market gardeners. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

PENCIL POD WAX—Extremely early and very prolific. Plants are upright in growth and make a strong, vigorous bush about fifteen inches high. Beautiful golden yellow and perfectly rounded pods. Absolutely stringless and an excellent flavor. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

RUSTPROOF GOLDEN WAX—Very vigorous in growth and extremely early. One of the hardiest of all the wax sorts. Pods are straight, long, and much thicker than the ordinary Golden Wax. A favorite with the home gardener. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

NEW HODSON WAX—A vigorous grower and the yield of large, handsome pods is enormous. Their color is a clear, creamy white; very long, straight or slightly curved, flat but fleshy. While late in maturing, the remarkable vigor of the plant is an effectual safeguard against blight and other bean disease. Seed light, yellowish brown, splashed with dull crimson. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

BEANS—Bush Lima



Burpee's Bush Lima

Culture—Soil should be of a rich loam. Plant in rows 2 feet apart and 6 inches in the row. Plant after all danger of frost has passed. A top dressing of well rotted stable manure or some good fertilizer will help wonderfully.

BURPEE'S BUSH LIMA—Bushes grow 18 to 20 inches high, stout growth and always erect, yet branching so vigorously that each plant develops into a magnificent circular bush 2 to 3 feet in diameter; an immense yield, each bush bearing 150 to 200 handsome, large pods, well lined. Pt., 15c. Qt., 25c. Pk., \$2.00. Bu., \$8.00.

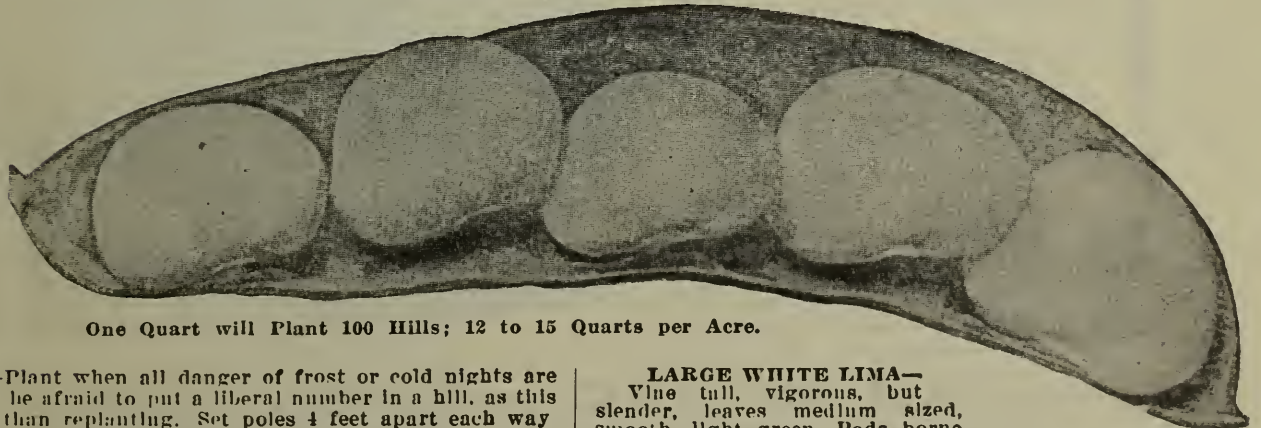
DREER'S BUSH LIMA—Dwarf variety of Dreer's Improved Lima, which has been fixed in its character of a bush bean; very prolific, single plants often producing 50 to 200 pods. Equal in quality and tenderness to Dreer's Pole Lima. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.50.

THE "BURPEE-IMPROVED" BUSH LIMA—Will outyield Burpee's Bush Lima by fully one-third. This greater yield is due to the increased size of both pod and beans. The dried beans are very handsome and generally show a greenish-white coloring, while dried beans of the Burpee Bush Lima, like those of the Large Pole Lima, are pure white. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.50.

FORDHOOK BUSH LIMA—An improved dwarf Lima of the Kumerle type. The plant is vigorous and erect growing, bearing well above the ground. The pods are produced in large clusters, each containing 3 to 5 large beans of exceptionally fine quality. Much more productive than Kumerle and matures earlier. We consider this a decided acquisition to the dwarf Lima, possibly the best of the class. Pt., 30c. Qt., 50c. Pk., \$3.00. Bu., \$10.00.

HENDERSON'S DWARF LIMA—These are very valuable because they do not need poles, and being so dwarf can be planted close together. They are very early and prolific, continuing to bear until frost. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

BEANS—Pole Lima



One Quart will Plant 100 Hills; 12 to 15 Quarts per Acre.

Culture—Plant when all danger of frost or cold nights are over. Don't be afraid to put a liberal number in a hill, as this is cheaper than replanting. Set poles 4 feet apart each way. Thin out to 3 plants to a pole.

Carpenteria—This new bean, of recent introduction, is rapidly coming to the front as a favorite with market gardeners and truckers generally. While it has all the good qualities of the King of the Garden, it is even better, as the beans have a better appearance. Color is a brightest green. It is early, yet keeps bearing until frost. Pods are filled with 4 to 5 large meaty beans, of the very finest flavor. Vines are vigorous and strong in growth, producing a number of pods, well filled. Pt., 15c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

LARGE WHITE LIMA—

Vine tall, vigorous, but slender, leaves medium sized, smooth, light green. Pods borne in clusters, 5 to 5½ inches long, broad, very thin, dark green. Seed very large, ovoid, flat, greenish-white. Pt., 15c. Qt., 30c. Pk., \$2.00. Bu., \$7.00.

KING OF THE GARDEN LIMA—Vines very vigorous and productive. Pods 5 to 6 inches long, filled with 4 or 5 immense white beans of the finest quality. On account of its large pods it is a favorite with market gardeners. It will come into bearing sooner and will make larger pods if not more than 2 vines are left to grow on a pole. Seed very large, ovoid, flat with slight greenish tinge. Pt., 15c. Qt., 30c. Pk., \$2.00. Bu., \$7.00.

All Prices Subject To Change Without Notice

BEANS—POLE LIMA—Continued

DREER'S IMPROVED OR CHALLENGE—Vines stout, vigorous and productive. Pods about 4 inches long, shorter and comparatively thicker than those of the other pole limas, and contain 4 to 5 beans, which are large, thick, white and of the best quality. Pt., 15c. Qt., 30c. Pk., \$2.00. Bu., \$7.50.

SEIBERT'S EARLY LIMA—The vine is vigorous, very productive and continues so from the very first to the last of the season; so that, although the pods rarely contain more than 4 beans, the total yield is enormous. Pods about 5 inches long. The green shelled beans are very large, very tender and of finest quality. Pt., 15c. Qt., 30c. Pk., \$2.00. Bu., \$8.00.

HENDERSON'S EARLY LEVIATHAN—This is the earliest. It will produce very large beans earlier than any other variety. It is very productive, both early and throughout the season. Pt., 15c. Qt., 30c. Pk., \$2.00. Bu., \$7.00.

FORD'S MAMMOTH—The pods grow to an average length of 8 inches, are produced in great clusters, with from 5 to 7 beans per pod of most excellent quality for using either green or dry. The vines grow vigorously, setting the beans early at the bottom of the pole, and continue in bearing up to frost. Pt., 15c. Qt., 30c. Pk., \$1.75. Bu., \$7.00.

EXTRA EARLY JERSEY—This is an extremely early variety, ripening two weeks earlier than any other sort. Pods are thin and very easily opened. The vine is very productive and exceptionally hardy and vigorous. The quality of the bean, its size and beauty make it one of the best. Pt., 15c. Qt., 30c. Pk., \$1.75. Bu., \$7.00.

BEANS—Pole

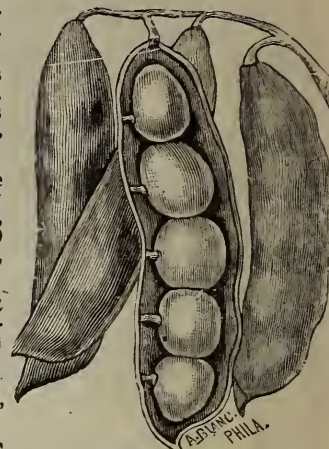
LAZY WIFE POLE BEANS—

As this can be used as a shell or green bean, makes it very valuable for every home garden as well as the market gardener. Pods are large and meaty; ripens early and very prolific. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

KENTUCKY WONDER—Vine vigorous, climbing well, and very productive; dry Beans, long, oval, dun-colored; green pod, 9 and 10 inches long. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

HORTICULTURAL, OR SPECKLED CRANBERRY—Beans large, ovate, splashed and spotted with wine red, and of the highest quality; either green or dry. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

RED SPECKLED CUT SHORT (CORN HILL)—This is the best sort to plant in hills of corn. Pt., 20c. Qt., 30c. Pk., \$2.25.



King of the Garden—
Pole Lima.

DUTCH CASE KNIFE—Vines moderately vigorous, climbing well, but twining more loosely than some, and so may be used for a corn hill Bean. Pt., 20c. Qt., 30c. Pk., \$2.50.

BEETS

One Ounce of Seed will Sow 100 Feet of Drill

Culture—The soil best suited for Beet culture is that which is rather light and well enriched. Sow in drills 1 foot apart and 1 inch deep, as early as the ground can be worked. When the plants are large enough thin out to 4 inches apart in rows.

DETROIT DARK RED—The uniformity of size, shape and fine appearance puts this variety at once among the leaders of this most desirable of all vegetables. Tops small and upright, admitting of close planting. Roots medium in size, globular or oval and very smooth; skin a dark blood red, flesh deep bright red, zoned with a lighter shade, fine grained, crisp, tender and sweet, remaining so long after many sorts become woody. This is certainly a market gardener's beet. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 35c. Lb., \$1.00.

EARLY MARKET—Its qualities are extra early, dark red color, fineness of shape and small top. One of the most attractive varieties grown, and is especially desirable for hotbeds on account of its small top and close-growing habit. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 35c. Lb., \$1.00.

BASSANO, OR EXTRA EARLY TURNIP—Flesh white and rose; very sweet and tender. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 35c. Lb., 60c.

SWISS CHARD, OR SPINACH BEET—This variety does not produce an edible root, but its top growth, which is silver-leaved, can be separated, the rib and the leaf; while the former is cooked and served like asparagus, the latter is prepared like spinach, and has altogether a decidedly splendid flavor. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 35c. Lb., 60c.

IMPROVED LONG BLOOD—A good variety for Fall and Winter use, when it should be sown early in July. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 35c. Lb., 60c.

ECLIPSE—A very early globe-shaped table beet. It has small tops and is smooth, fine-grained and tender, with bright red color. Many market gardeners have discarded Egyptian entirely in favor of the Eclipse. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 35c. Lb., \$1.00.

CROSBY'S EGYPTIAN—A carefully selected strain of Egyptian, as early as the original, but larger, thicker, smoother and of better quality. Flesh deep blood red. It is a rapid grower, attaining a usable size quicker than any other variety, and does not become woody with age. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 35c. Lb., \$1.00.

EXTRA EARLY BLOOD TURNIP—Fine for forcing and for first early crop out of doors. Roots rich, dark crimson, with very small tap roots; flesh dark blood red, zoned with lighter shade; crisp, sweet and tender when young. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 35c. Lb., \$1.00.

EXTRA EARLY EGYPTIAN—This is a flat Beet, very early and deep red color. Owing to the small top, it can be planted very close. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 35c. Lb., 60c.

Eclipse

CATTLE BEETS—(German, Mangel Wurzel)

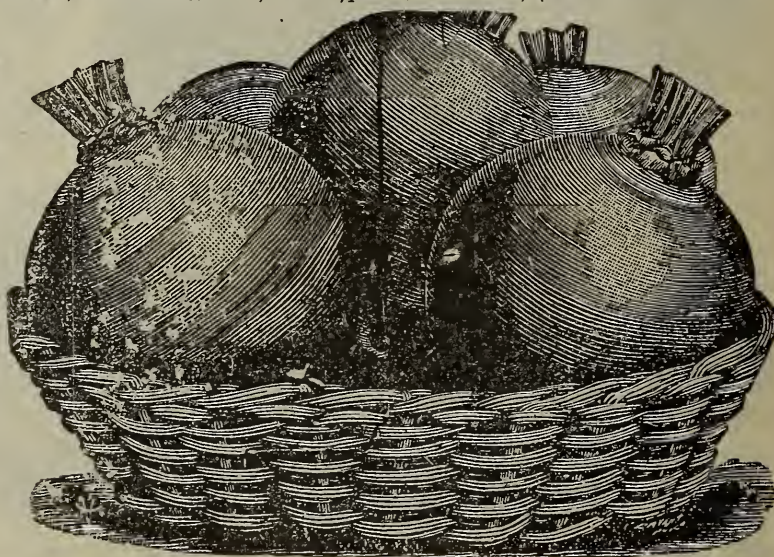
Culture—Sow 5 pounds per acre in April and May in thoroughly plowed, well-manured soil, in drills 2 inches deep, about 24 inches apart. Thin out to 12 inches and keep the weeds down by frequent hoeing and cultivating. Low ground is best adapted for Mangel Wurzel.

MAMMOTH LONG RED—This is an enormously productive variety, yielding from 50 to 70 tons to the acre, a single root often weighing from 20 to 40 pounds. It is the best long, red Mangel. Pkts., 5c. ¼ Lb., 15c. Lb., 45c.

GOLDEN TANKARD—The best long, yellow Mangel in cultivation. Relished by milch cows and sheep. Maturing earlier than other larger sorts. Pkts., 5c. ¼ Lb., 15c. Lb., 45c.

WHITE SUGAR—This variety attains an enormous size, growing considerably above the ground; one of the best for stock feeding. Pkts., 5c. ¼ Lb., 15c. Lb., 50c.

CHAMPION YELLOW INTERMEDIATE, OR GATE-POST MANGOLD—One of the very finest Mangolds ever introduced, giving unbounded satisfaction wherever grown. With good cultivation will crop at the rate of 200 bushels per acre. Pkt., 5c. Oz., 10c. ¼ Lb., 15c. Lb., 50c.



Detroit Dark Red

All Prices Subject To Change Without Notice

CABBAGE—German, Kopfkohl

One Ounce of Seed to 100 Yards of Row

The requisites for complete success with Cabbage are: First, good seed. (In this crop the quality of the seed used is of the greatest importance; no satisfactory results can possibly be obtained when poor seed is planted.) Second, rich, well-prepared ground. (A heavy, moist and rich loam is most suitable.) Third, frequent and thorough cultivation. The ground should be highly manured and worked deep. Our Cabbage seeds are American grown, and we are certain that better seed could not be obtained, as they are grown from specially selected seed stock, and are not simply strains of other varieties, but true and distinct varieties.



Jersey Wakefield

EARLY JERSEY WAKEFIELD—The earliest and surest heading of first early Cabbage. Most gardeners depend upon it for the bulk of their extra early crop. Its exceeding hardiness, not only to resist cold, but other unfavorable conditions, insures the greatest likelihood of profitable and satisfactory results. Our stock is grown and selected with the greatest care; there is none better and there are few as good. Plant compact, with few outer leaves, which are smooth and thick. Heads of medium size, solid, uniformly pointed and of excellent quality. The habit of growth and hardiness make it most desirable for early planting. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 60c. Lb., \$2.00.

LARGE EARLY YORK—One of the earliest. Heads medium size. pointed. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 60c. Lb., \$2.00.

PREMIUM FLAT DUTCH—This variety of late Cabbage is a standard in all sections for Winter use. It makes a large solid head, which keeps long without bursting, and is adapted to a more varied climate than probably any other variety. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 50c. Lb., \$1.75.

EARLY WINNINGSTADT—An old and very popular variety. Heads cone-shaped; very early. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 60c. Lb., \$2.00.

HENDERSON'S EARLY SUMMER—Enormous solid heads, roundish flat; one of the best midsummer varieties and is a ready seller. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 60c. Lb., \$2.00.



Premium Flat Dutch

SUREHEAD—This is rightly named Surehead as it never fails to make a fine large head which is solid, and uniform, with few outer leaves. A sure header and a sure cropper. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 60c. Lb., \$2.00.

ALL SEASONS—American grown This forms a fine, large head, of superior quality, nearly as early as the Early Summer. Suitable for planting at any season. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 60c. Lb., \$2.00.

DANISH BALL HEAD—A good main crop variety; popular with many of the gardeners. Large, solid, round head, medium early, having few outer leaves, consequently can be planted very close together. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 60c. Lb., \$2.00.

CHARLESTON, OR LARGE WAKEFIELD—A strain in which the plant is larger and a little later than Early Jersey Wakefield, the head being fully as solid, but less pointed and considerably larger. Leaves rather large, smooth and comparatively thick. Exceedingly hardy, and on account of its earliness and size of head with market gardeners and shippers it is deservedly a very popular sort to follow Jersey Wakefield. The seed we offer can be depended on to produce uniformly fine, marketable heads. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 60c. Lb., \$2.00.

FOTTELER'S EARLY DRUMHEAD, OR SHORT STEM BRUNSWICK CABBAGE—The plants are of dwarf, compact growth; solid, flat heads. The foliage is a light bluish-green. Much earlier than the Flat Dutch varieties. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 60c. Lb., \$2.00.

SUCCESSION—Very popular with the market gardener, producing enormous, uniform heads and matures a few days later than Early Summer. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 60c. Lb., \$2.00.

EARLY DRUMHEAD—Very large, flat head, with few outer leaves; it follows in maturing the Large Charleston Wakefield. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 50c. Lb., \$1.75.



Charleston, or Large Wakefield Cabbage

EARLY FLAT DUTCH—Very compact grower, with a medium size, roundish flat head, which is always solid. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 50c. Lb., \$1.75.

WORLD BEATER, OR AUTUMN KING—This is a very superior late Cabbage. The large, broad heads are very thick through, slightly rounded at the top, fine grained and tender; has a short stalk, green color, and one of the best keepers we know, and is a rapid grower. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 60c. Lb., \$2.00.

LARGE LATE AMERICAN DRUMHEAD—Especially Desirable for Fall and Winter Use.—It is extremely uniform in heading and dwarf in growth, so that the largest number can be raised on a given area. Has few outer leaves, extra hard head. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 40c. Lb., \$1.50.

PERFECTION DRUMHEAD SAVOY—This is the hardest heading and best all-round Savoy. Heads beautifully blanched and of the finest flavor. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 60c. Lb., \$2.00.

ALL HEAD—The largest of the early Cabbages, being roundish flat and very solid. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 75c. Lb., \$2.50.

RED ROCK—While late in maturing, this is the largest heading of all deep red varieties. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 60c. Lb., \$2.00.

GEORGIA COLLARDS—Called the Cabbage Collard on account of its close bunching growth. The plant produces center leaves generally perfectly white, though sometimes dashed with pink. It is a very delicate vegetable and of the finest quality. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 30c. Lb., \$1.00.

All Prices Subject To Change Without Notice

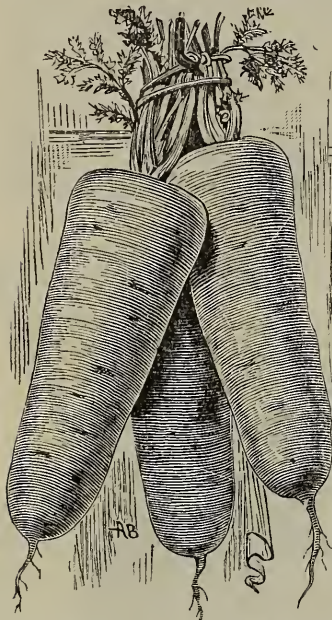
CABBAGE—Continued

NEW EARLY—Our strain of this variety is of special value, because of its close adherence to the types in habit of growth and the shape and quality of the head. Plant compact, with few outer leaves, which are smooth and rather thick. Head very large for so early a variety, very solid, flat, but very deep and uniform in size and shape. Quality excellent. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 75c. Lb., \$2.50.

CARROT

One Ounce of Seed to 100 Feet of Row.

Culture—While a sandy loam made rich by manuring the previous year is the best soil for the Carrot, any good land if thoroughly and deeply worked will produce satisfactory crops. It is advisable to sow as early in the Spring as the ground is fit to work, though good crops may be grown from sowings as late as June 15. For table use sow the smaller kinds early in rows 16 to 18 inches apart. For field culture sow the drills 18 to 24 inches apart, using from 1½ to 3 pounds of seed to the acre. Cover ½ to 1 inch deep.



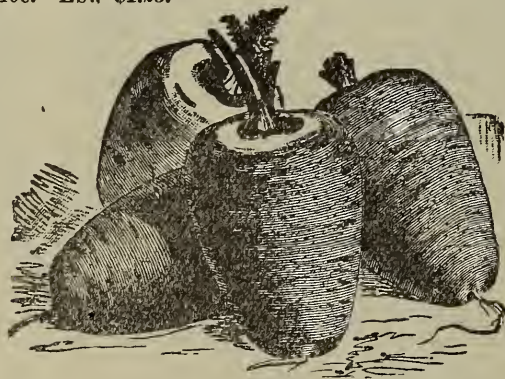
EARLY SCARLET HORN—Excellent for early planting out of doors. Tops small. Roots orange-red, about 3 inches long, top shaped but tapering abruptly to a small tap. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 50c. Lb., \$1.50.

DANVERS—A half long orange Carrot, grown largely on account of its great productiveness and adaptability to all classes of soil. Tops of medium size. Roots of medium length, 6 to 8 inches long, tapering uniformly to a blunt point. Flesh deep orange, crisp and tender. Although the roots of this variety are comparatively short, they produce as large a bulk as the longer field sorts and are more easily harvested. Pkts., 5c and 10c. Oz., 20c. ¼ Lb., 50c. Lb., \$1.50.

Chantenay, or Maryland Pride.

CHANTENAY, OR MARYLAND PRIDE—Very productive, medium early and of excellent quality. Tops medium sized, necks small. Roots thick, 5¼ to 6 inches in length, uniformly half long or stump rooted, but tapering slightly; smooth, deep orange color. Flesh very crisp and tender. Although a medium early sort, the roots are suitable for use nearly as early as any. One of the best in quality for the market and home garden, while its great productiveness and the ease with which it can be harvested make it very desirable as a field sort. Pkts., 5c and 10c. Oz., 20c. ¼ Lb., 50c. Lb., \$1.50.

IMPROVED LONG ORANGE—The roots of the strain we offer are very deep orange, long and comparatively thick, often 12 inches in length and 3 inches in diameter at the crown, tapering regularly to a point. Tops small for the size of the root. Suitable for table use as well as stock feeding, combining great productiveness with uniform shape and fine-grained, sweet flesh. Pkts., 5c and 10c. Oz., 20c. ¼ Lb., 40c. Lb., \$1.25.



Oxheart

GUERANDE, OR OX HEART—Especially desirable for soil so hard and stiff that longer-rooted sorts would not thrive in it. Tops comparatively small. Roots 4 to 5 inches long, very thick, ending abruptly in a small tap root. Flesh bright orange, fine grained and sweet. When young the roots are excellent for table use and when matured are equally good for stock feeding. Pkts., 5c and 10c. Oz., 20c. ¼ Lb., 50c. Lb., \$1.25.

CAULIFLOWER

One Ounce Will Produce 1500 Plants.

Culture—For Spring and early Summer crop, sow in March or early in April in hotbed and transplant in cold frame when sufficiently large to handle. As soon as danger of hard freezing is over set in open ground in rows 2½ feet apart and 18 inches apart in the row. The plants will endure a light frost. The soil for Cauliflower should be like that for cabbage, but it is better if made richer.



Extra Early Snowball Cauliflower

EXTRA EARLY SNOWBALL—Unquestionably the earliest maturing strain of the true short-leaved Snowball type of Cauliflower. Admirably adapted for forcing or wintering over for early crop, and the most popular sort for these purposes, also one of the best sorts for late Summer and Fall crop. The plants are compact, with few short outside leaves, and are well suited for close planting. The heads are of medium to large size, solid, compact, round, very white and curdlike, and are developed earlier than those of any other sort. Pkts., 25c and 50c. Oz., \$2.00.

EXTRA EARLY DWARF ERFURT—A remarkably sure heading early Cauliflower. It is of dwarf habit with short outside leaves, and is similar in all respects to Early Snowball, and nearly as early. The heads, when ready for market, are of medium to large size, curd white, exceptionally deep and of finest quality. It will give excellent results either in the home garden or for market use, and is superior to most seed sold at higher prices. Where extreme earliness is not the greatest consideration, we recommend this strain after having proven it far superior to most stocks offered as Snowball. Pkts., 10c and 25c. Oz., \$1.50.

DROUTH-RESISTING—Large white solid heads, maturing a little later than the Snowball. The best for hot, dry weather. Pkts., 25c and 50c. Oz., \$2.00.

EARLY PARIS—An excellent sort for early or late use. Pkt., 10c. Oz., 75c.

CRESS

CURLED, OR PEPPER GRASS—This small salad is much used with lettuce, to the flavor of which its warm, pungent taste makes a most agreeable addition. Pkt., 5c. Oz., 10c. ¼ Lb., 35c. Lb., \$1.25.

WATER CRESS—Highly esteemed as a salad during the Spring and Fall, and as a garnish for meats during the Winter. Seed may be started readily in pans or boxes of very moist earth, and the young plants transplanted to shallow water. Pkt., 10c. Oz., 40c. ¼ Lb., \$1.25.

CHIVES

(German, Schnittlauch)

This popular kitchen garden plant is indispensable for flavoring certain dishes. It imparts a mild onion taste, not, however, to such an extent as to render it objectionable. The plants are hardy and will last for years. Don't cut the plant too close when gathering. If desired for Winter use, lift and plant in a pot or box and place in a sunny window in the kitchen. Pkt., 15c., 2 for 25c.

CORN SALAD

Three Ounces of Seed to 100 Feet of Row

A favorite salad plant and very hardy. Sow in August or September, and protect with leaves during Winter. It can be gathered in the Spring very early. Sown in April, it is soon ready for use. The leaves are sometimes boiled and served as spinach. Pkt., 5c. Oz., 10c. ¼ Lb., 15c. Lb., 50c.

CHERVIL

One Ounce Will Sow a Row 25 Feet Long

An aromatic plant, used extensively in Europe as a salad seasoner. It adds a flavor that is entirely its own. When chopped fine and scattered on buttered potatoes it is a rare treat. American gardeners should become familiar with this, as they are missing one of the best things that grow. Sow it in a row like parsley, which it somewhat resembles. For a continuous crop, sow every 2 weeks. If one has heated frames or a greenhouse, it can be cut 4 or 5 weeks after sowing. Pkts. 5c and 10c. Oz., 20c. ¼ Lb., \$1.00.

All Prices Subject To Change Without Notice

CELERY

One Ounce of Seed will Produce 2,000 Plants

Culture—Sow in hotbeds in March or in open ground in April see that no weeds infest the seed bed; when 2 inches high transplant in a bed outdoors in rows 3 inches apart each way; let them remain here until July, when they should be planted where they are to mature, in rows 3 feet apart, 6 inches apart in the row.

DWARF GOLDEN HEART—This variety comes in for use at Christmas, and keeps well into the Spring. The stalk is short, stocky and very nutty. The heart or inner stalks are a rich golden yellow. An ideal home garden variety. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 40c. Lb., \$1.25.

White Plume is the earliest celery in cultivation. It is distinct from the Golden Self-Blanching in being taller in growth more slender in stalk and blanches to a pure, snowy whiteness. It is a valuable market sort on account of its extreme earliness, but is not as good a keeper nor so fine a flavor as the Golden Self-Blanching.

WINTER QUEEN—A medium tall, solid variety; will retain its qualities long through the Winter. The heart is very full and large. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 40c. Lb., \$1.25.

GIANT PASCAL—One of the largest stalked kinds, with wonderful keeping qualities. It is in its prime for use during February and March, and can be used well up into Spring. Its flavor is fine and nutty; the stalks have no tendency to be stringy, and are enormously thick and meaty. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 40c. Lb., \$1.25.

WHITE PLUME—The standard early Celery for market and the home garden. The stalks and heart, which blanch very quickly to almost a pure white, are very crisp and brittle. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 40c. Lb., \$1.25.

GOLDEN SELF-BLANCHING—One of the earliest and most productive sorts. The beautiful golden-colored stalks attain a height of 18 inches, which during the growing period are never pithy; of excellent flavor, requiring no artificial blanching process; ready for use in October, but may be kept for early Winter use. Pkts., 5c and 10c. Oz., 25c. ¼ Lb., 75c. Lb., \$2.25.



Of the Self-Blanching Early Varieties, the Golden Self-Blanching is the finest and most generally known. The plants are of strong, stocky growth, with broad, thick stalks, which blanch readily to a clear waxy yellow.

PINK PLUME—A very solid, crisp, desirable sort. The stalks when blanched are a beautiful rose-pink. On the table it is quite an attraction, and should be grown more extensively. It is very early and requires very little artificial blanching. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 40c. Lb., \$1.25.

BOSTON MARKET—A very short, bushy variety, which blanches almost a pure white, with a distinct desirable flavor. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 40c. Lb., \$1.25.

Extra Select French Golden Self-Blanching

Our seed of this variety comes to us every season direct from the originator in France, and our rapidly increasing trade is abundant evidence of its high quality. It is now the leading sort on all markets as an early Celery. For market use it is preferred to White Plume, because it does not wilt so soon and its rich yellow color is very attractive. The stalks are heavier and it comes into market almost as soon as any other sort. It is of dwarf, compact habit and blanches readily. We much regret that the crop this year is so nearly a failure that we can offer the true seed only in packets, ounces and quarter pounds. Prices, by mail, postpaid: Pkt., 10c. ½ Oz., 90c. Oz., \$1.75. ¼ Lb., \$7.00.

CELERIAC

Grown extensively for the roots, which are turnip-shaped, very smooth, tender and marrowlike.

LARGE SMOOTH PRAGUE—This is unquestionably the largest and best Celeriac in existence. Pkts., 5c and 10c. Oz., 20c. ¼ Lb., 60c.

"SEEDOLIN"

(Non-poisonous)

Certain preventative against all Birds. Prevents smut, fungus and vermin. No germs can live against it. Prevents ground rot and red rust.

	Wheat, Maize, Peas, Beans, Vetches, etc. Bus.	Barley, Rye, Cot- ton, etc. Bus.	Oats, etc. Bus.	Price.
Pt. can, sufficient for.....	4	3½	3	\$.50
Qt. can, sufficient for.....	8	7	6	.85
½-gal. can, sufficient for.....	16	14	12	1.45
1-gal. can, sufficient for.....	32	28	24	2.80
2-gal. can, sufficient for.....	64	56	48	5.50
5-gal. can, sufficient for.....	160	140	120	13.00

PLANTS—Vegetable

We grow each year, thousands of vegetable plants of all kinds, we furnishing the seed stock, thereby knowing the true varieties of each. These are looked after with the utmost care, and in shipping, are packed in moss, in strong cases, so we can guarantee safe delivery to our customers. Our list includes the following:

BEET—Eclipse, Detroit Dark Red, Crosbys Egyptian Blood Turnip and Egyptian Flat, 35c per hundred, \$1.75 per thousand. Special price on larger quantities.

CABBAGE—Early Jersey Wakefield, Charleston Wakefield, Plain Flat Dutch, Early York. Succession, All Seasons, Drumhead Savoy, and All Head Early. 30c per hundred. \$1.75 per thousand.

CELERY—Golden Heart, Winter Queen, Giant-Pascal, Pink Plume, Boston Market, and Golden Self-Blanching. 60c per hundred. \$4.00 per thousand.

EGG PLANT—New York Improved, Black Beauty and Baltimore Pot Grown. 50c per dozen. \$4.50 per hundred. From seed bed, 50c per hundred. \$4.00 per thousand.

KOHLRABI—45c per hundred. \$2.75 per thousand.

LETTUCE—All varieties. 30c per hundred. \$2.25 per thousand.

PEPPERS—Bull Nose, Sweet, Mountain, Ruby King and other varieties. 50c per hundred. \$4.00 per thousand.

SWEET POTATO—All varieties. 60c per hundred. \$4.50 per thousand.

TOMATO—All varieties. Seed bed plants, 40c per hundred. \$3.50 per thousand. Field grown, 30c per hundred. \$2.00 per thousand. Special price quoted on larger quantities.

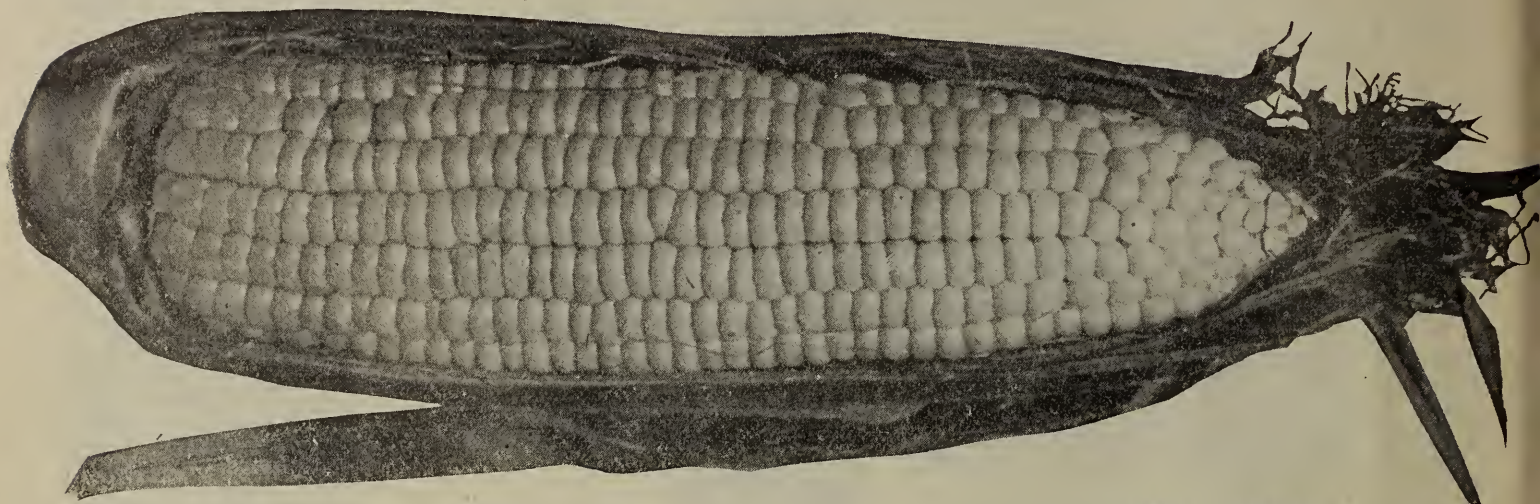
NOTICE—Plants will not be forwarded C. O. D. Plants are not quoted by express prepaid; the customer pays express charges and unless otherwise instructed plants will be forwarded by express.

Cash Must Accompany All Orders for Plants.

All Prices Subject To Change Without Notice

SWEET OR SUGAR CORN

Culture—Sugar Corn can be raised on any good, ordinary soil if it is deeply and well worked before planting. Give frequent and thorough, but shallow, cultivation until the tassels appear. Plant in rows about 3 or 4 feet apart and about 3 feet apart in the row. Leave not more than 3 plants to the hill. It can be planted from first of May to last of July for a succession of crop.



Stowell's Evergreen

ADAM'S EXTRA EARLY—Pure white, medium-sized ears. Not a sugar corn. Planted extensively by market gardeners, as it matures in about 65 days after germination. Pt., 15c. Qt., 25c. Pk., \$1.25. Bu., \$4.00.

ADAM'S EARLY—Pure white, ears a trifle larger than Adam's Extra Early. Matures about 10 days later. Pt., 15c. Qt., 25c. Pk., \$1.25. Bu., \$4.00.

WHITE COB CORY—One of the very best extra early sorts for the market and home garden. Selected for white cob and white kernels from the original and earliest Cory. Pt., 25c. Qt., 40c. Pk., \$2.25. Bu., \$8.00.

EARLY CROSBY—A most excellent second early variety. Ears large size, 12 rowed, medium length; grain thick and sweet; sure to give satisfaction; fine for drying. Pt., 25c. Qt., 40c. Pk., \$2.25. Bu., \$8.00.

EARLY SHEFFIELD—This is one of the standard old varieties that has become wonderfully popular. Both in quality and yield it is sure to delight all lovers of choice early Sweet Corn. Pt., 30c. Qt., 50c. Pk., \$3.50. Bu., \$12.

PEEP O' DAY—A new variety, of extraordinary earliness and superior sweetness; equaling the larger and later varieties. Wonderfully productive, owing to the fact that the stalks bear from 2 to 3 ears each. The originator claims for this variety that it sometimes yields almost double as much as other sorts. Very popular and profitable to market gardeners, owing to its earliness, productiveness and beauty. Pt., 30c. Qt., 50c. Pk., \$3.50. Bu., \$12.00.

PREMO—Ears from 5 to 7 inches long, and of fine shape for a first sort. We confidently recommend it to all gardeners, as its earliness and table quality will speedily bring it into favor. Pt., 30c. Qt., 50c. Pk., \$3.50. Bu., \$12.00.

EARLY EVERGREEN—A fine new sort; identical in flavor, shape and size of grain with Stowell's Evergreen, but about 10 days earlier. The ears grow about 9 inches long, are mostly 12 rowed, and remain tender a remarkably long time. It is a splendid sort for truckers and private gardeners, as it furnishes a succession to the second early sorts. Pt., 30c. Qt., 50c. Pk., \$3.50. Bu., \$12.00.

GOLDEN BANTAM—This is a Sweet Corn of most exquisite quality, which, when ready to use, is of a bright golden yellow color. It looks rich and it is rich, and no mistake. It can be planted very early, as it is hardy as the Extra Early Adam's. The small stalks can grow very closely together in the row and will produce 2 to 3 ears each. Pt., 30c. Qt., 50c. Pk., \$3.50. Bu., \$12.00.

EARLY MAMMOTH—Really a second early variety, producing enormous ears on a mammoth stalk. Pt., 30c. Qt., 50c. Pk., \$3.50. Bu., \$12.00.

BLACK MEXICAN—Very sweet sugary flavor. Ears about 7 inches long. Color black. Pt., 40c. Qt., 75c. Pk., \$4.50.

SHAKERS EARLY—This is a very desirable sort for market gardeners as well as the home garden, as it matures very early. Very productive, often growing 4 ears to a stalk. The ears are large and well filled, with long, narrow grains. Pt., 30c. Qt., 50c. Pk., \$3.50. Bu., \$12.00.

HICKOX—A very handsome and showy sort. Large ears, large white grain; a splendid variety for market gardeners. Pt., 30c. Qt., 50c. Pk., \$3.50. Bu., \$12.00.

90-DAY RED COB—This sort, while not a sugar corn, is planted almost exclusively as a table corn. It matures in 90 days, and, if weather conditions are just right, will often be ready to cut in 80 to 85 days. Cob red, ears large, grain large, white. Pt., 15c. Qt., 25c. Pk., \$1.50. Bu., \$5.00.

COUNTRY GENTLEMEN—The ears are somewhat smaller and less showy than the coarser varieties, but for private family use, where quality is preferred to size, it has no equal. The cob is very small, giving great depth to the grain. Matures about the same time as Stowell's Evergreen. Pt., 40c. Qt., 75c. Pk., \$4.50.

STOWELL'S EVERGREEN—The most popular of all. If planted at the same time with earlier kinds will keep the table supplied until October. It is hardy and productive, very tender and sugary, remaining a long time in a fresh condition for cooking. In fact, it is so well known that it needs no further description. Pt., 30c. Qt., 50c. Pk., \$3.50. Bu., \$12.00.

Early Champion

AN EXCELLENT SECOND EARLY SORT—As sweet as any variety. Golden Bantam and Country Gentleman not excepted. Yields more than any other early variety; ready for use in seventy days after planting. The ears are 6 to 8 inches long, 12-rowed and kernels pure white. Very large and deep for an early corn; grows about 5 to 6 feet high, usually with two ears to the stalk. It is superior to most other corns in quality and is a few days earlier than Minnesota. More prolific, larger ear, deeper kernels. For home use and when dried it is remarkably sweet and tender. Market gardeners will find it most desirable and profitable on account of its being an early sweet corn of large size and very productive. Many plant the Early Champion at intervals of two weeks in order to have a succession of it the whole season, preferring it for the table to any of the later sorts. Pt., 30c. Qt., 50c. Pk., \$3.50. Bu., \$12.00.

ZIG-ZAG EVERGREEN—This fine new strain possesses the distinct characteristics which have made Stowell's Evergreen so deservedly the favorite for main crop, but produces ears fit to use from one week to ten days earlier. Pt., 30c. Qt., 50c. Pk., \$3.50. Bu., \$12.00.

KENDEL'S EARLY GIANT—The ears average 8 to 10 in. long and carry an average of about 12 rows. Kernels are pure white and are very sweet, tender and of fine table quality. Kendel's Early Giant is very prolific and reaches marketable size in about 65 days. This variety is especially adapted to light, sandy soil. Pt., 30c. Qt., 50c. Pk., \$3.50. Bu., \$12.00.

MALAKOFF SWEET CORN—The earliest real sweet Corn in existence; habits simple like Peep o' Day, with much better quality. The plant is very dwarf and usually produces three ears to every stalk; ears are short, three and one-half to four inches; eight rowed. Pt., 30c. Qt., 50c. Pk., \$3.50. Bu., \$12.00.

EGYPTIAN OR WASHINGTON MARKET—A standard variety, in season between Evergreen and Mammoth Sugar. Very sweet and well adapted for canning. Pt., 30c. Qt., 50c. Pk., \$3.50. Bu., \$12.00.

OLD COLONY—This variety is two weeks earlier than the Evergreen, and almost as large. It is considered the best and sweetest by canning factories. A fine paying variety for market. Pt., 30c. Qt., 50c. Pk., \$3.50. Bu., \$12.00.

WHITE EVERGREEN—This is a high-bred white type Stowell's Evergreen. It has been developed by careful work, only the finest white-eared product being saved and selected each season. The stalks are of strong, vigorous growth, six to seven feet high. Pt., 30c. Qt., 50c. Pk., \$3.50. Bu., \$12.00.

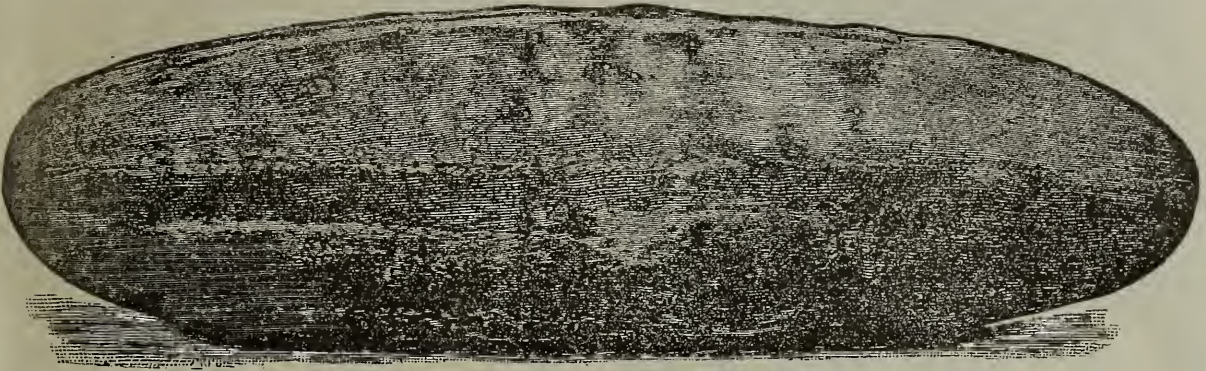
GOLDEN QUEEN POP CORN—For planting or popping. Lb., 10c. 5 Lbs., 30c.

All Prices Subject To Change Without Notice

CUCUMBER—(German, Gurke)

One Ounce to 50 Hills. Two Pounds per Acre.

Culture—Cucumbers succeed best in rich loamy soil. As soon as the weather becomes warm and settled, plant in hills 4 to 6 feet apart each way, with 10 to 12 seeds in a hill; cover $\frac{1}{2}$ inch deep. Air-slaked lime sprinkled on the plants every few days as soon as they are up will protect them from the striped beetle. When 3 or 4 inches high, thin out plants, leaving 3 or 4 of the strongest to each hill. The fruit should be picked when large enough, otherwise it destroys the productiveness



Klondike Cucumber.

KLONDIKE—This is a true and distinct sort, not to be compared with the White Spine. It is entirely different, in that it holds its greenish color longer, is earlier, and has a much better appearance. It is the best for truckers as well as for the home garden. One trucker in Anne Arundel County, Md., says: "The best crop of Cucumbers I ever had," and we can say that this is the sentiment of all who have tried this wonderful sort. Pkts., 5c. and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 40c. Lb., \$1.00.

IMPROVED LONG GREEN—Of excellent quality, dark green, firm and crisp. Very popular with the market gardeners. A standard pickling sort. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 25c. Lb., 60c.

JERSEY PICKLING—Very popular with market gardeners. Medium length, with large and prominent spines. Color deep green, very prolific. Pkt. 5c. Oz., 10c. $\frac{1}{4}$ Lb., 25c. Lb., 60c.

EVERBEARING—This is one of the most productive sorts. Fruit can be picked throughout the entire season. The vine is hardy and will continue to flower and bear fruit until killed by frost. Fruit small, very early. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 25c. Lb., 75c.

ARLINGTON WHITE SPINE—This strain of White Spine has been improved by careful selection. Rich green color, and a very prolific bearer. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 25c. Lb., 80c.

EARLY GREEN PROLIFIC—A very productive variety, having fruits of good length and handsome form. Desirable for producing pickles of medium size and of fine quality when sliced for the table. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 25c. Lb., 75c.

EARLY CLUSTER—A short, prickly sort, very prolific and early, bearing in clusters near the root. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 25c. Lb., 75c.

CUMBERLAND—This splendid sort, introduced a few years ago, has certainly held its own, and is now one of the best standard sorts. Said to have originated from crossing the Parisian Pickling and the Early White Spine. It certainly has the good qualities of both of these sorts. Large, sym-

metrical, dark green fruit, covered with innumerable small white spines. Excellent for slicing. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 25c. Lb., 90c.

CHICAGO, OR WESTERFIELD PICKLING—Fruit of medium length, pointed at each end, with very large and prominent spines; color deep green. A very prolific variety and one of the best for those who want crisp, coarsely spined pickles. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 25c. Lb., 75c.

SMALL GHERKIN—For Pickles—A very small, oval, prickly fruited sort, quite distinct from all others and grown exclusively for pickles. It is the smallest of all the varieties and should always be picked when young and tender. Seed distinctly smaller than other Cucumbers, and is slow to germinate, requiring usually from 2 to 3 weeks. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 50c.



White Spine

EGGPLANT—(German, Eierflause)

One Ounce will Produce About 1,000 Plants

Culture—Eggplant seed germinates slowly and should be started in hotbed, for in this, as in all sub-tropical plants, it is of importance to secure a rapid and continuous growth from the first, the plants never recovering from a check received when young. When the plants have formed 2 rough leaves transplant to 3 or 4 inches apart. When all danger, not only of frost, but from cold nights, is past, harden off the plants by gradual exposure to the sun and air, and decreasing the supply of water; then transplant to the open ground, setting the plants $2\frac{1}{2}$ feet apart.

BLACK BEAUTY—Fruit large, symmetrical in shape and uniformly of a rich dark purple color, which it holds an exceptionally long time, making the variety very desirable for the market. Fruit matures a little earlier than our Improved Large Purple, but are usually not quite as large. Pkts., 5c and 10c. Oz., 25c. $\frac{1}{4}$ Lb., 75c. Lb., \$2.75.

BALTIMORE—Large fruit, thornless, of beautiful shape and handsome color. One of the best and most profitable Eggplants in cultivation. Pkts., 5c and 10c. Oz., 25c. $\frac{1}{4}$ Lb., 75c. Lb., \$2.75.

NEW YORK IMPROVED LARGE PURPLE EGGPLANT—SPINELESS—This variety is a general favorite both for market and home garden. Plants spineless, large and spreading, with light green foliage. Usually produces 4 to 6 large, oval fruits of a splendid dark purple color. Early, productive and of excellent quality. The vigor and productiveness of the plant and the large size and fine quality of its fruit make it most profitable for market gardeners. Pkts., 5c and 10c. Oz., 25c. $\frac{1}{4}$ Lb., 75c. Lb., \$2.75.

ENDIVE

GREEN CURLED

The hardiest variety. Leaves dark green, finely cut; easily blanched to a fine white. Pkt., 5c. Oz., 20c. $\frac{1}{4}$ Lb., 50c.

BROAD LEAVED BATAVIAN

Leaves large, broad, slightly curled, tie up for blanching. Pkt., 5c. Oz., 20c. $\frac{1}{4}$ Lb., 50c.

Best By Test



New York Improved Large Purple Eggplant

Culture—Endive is an excellent Autumn and Winter salad. Sow seed late in the Spring, or even as late as July, in shallow drills, 15 inches apart, and when plants are strong thin out to about a foot apart. To blanch, gather up the outer leaves over the center of the plant and tie them together at their tips. Sow 1 ounce to a hundred feet of drill.



German Curled Kale

MUSTARD (German, Senf)

WHITE MUSTARD—For salads and culinary purposes. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 50c.

BROWN MUSTARD—Stronger than above. Price, same as white.

LEEK—(German, Lauch)

One Ounce to 150 Feet of Row

Culture—Sow the seed and care for the young plants same as for onions, but they need a little more room in order to develop fully. When the young plants are about the size of a goose quill transplant into a prepared bed in rows 1 foot apart and 4 to 5 inches in the rows. Set the roots deep and draw the earth to them when cultivating, so that they may be well blanched by the time they are fit for use.

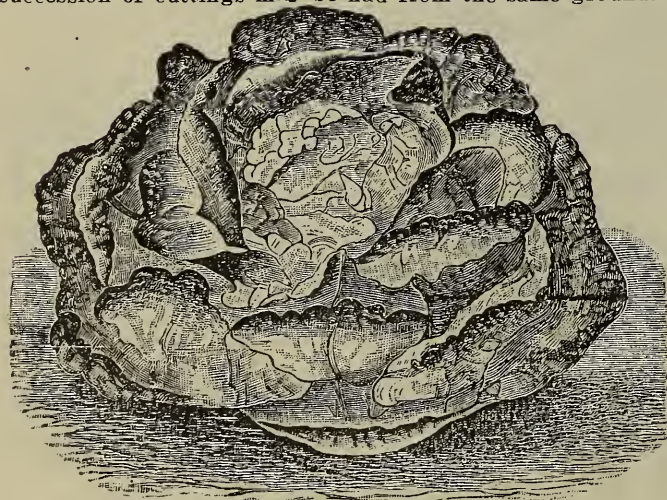
LARGE AMERICAN—Produces a large, thick stem and of mild flavor. Pkt., 5c. Oz., 15c. $\frac{1}{4}$ Lb., 40c. Lb., \$1.25.

LONDON FLAG—One of the hardiest and best for Winter use. Pkts., 5c. Oz., 15c. $\frac{1}{4}$ Lb., 40c. Lb., \$1.25.

LETTUCE—(German, Lattich)

One Ounce of Seed for 2000 Plants.

Culture—Lettuce to be at its best should be grown as rapidly as possible, hence the soil should be made as rich and friable as possible by liberal manuring and thorough preparation. For Winter, sow under glass from November to February and thin out as necessary to prevent crowding. Keep a moderate heat and give all the light and air possible. For general crop, sow outdoors as early in the Spring as the ground can be worked, in drills 18 inches apart, and thin the young plants to 4 inches apart in the row. As the plants begin to crowd thin them out and use as required. In this way a much longer succession of cuttings may be had from the same ground.



Large Loaf Lettuce

HANSON—(Seed White)—One of the most desirable later Summer Lettuces. The plant is compact and forms a large, cabbagelike head, which remains in condition longer than most heading sorts. Outer leaves bright yellowish-green, broad, somewhat crumpled and frilled at edge and with distinctive midrib. Inner leaves white, very crisp and sweet. Pkts., 5c and 10c. Oz., 20c. $\frac{1}{4}$ Lb., 30c. Lb., \$1.00.

KALE—(German, Blaetter-Kohl)

One Ounce of Seed will Sow a Drill of About 150 Feet
Extensively grown in this locality and also in the South during the Fall, Winter and Spring. The plant is more hardy than cabbage, and makes excellent greens for Winter and Spring use. The quality is improved rather than injured by frost.

DWARF GERMAN CURLED KALE—A finely curled, spreading, low-growing variety. The leaves when properly cooked make a very palatable dish of greens. The plant is very hardy. The leaves are long and of an attractive, bright green color. Pkt., 5c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

EXTRA CURLED NEW AMERICAN KALE—Long standing, extra curled, and of a beautiful greenish color. Pkt., 5c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

NORFOLK KALE—Grown extensively by Norfolk truckers. Leaves very much curled and of a light green color. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 25c. Lb., 75c.

TALL GREEN CURLED SCOTCH—Grows to 3 or 4 feet high, bearing long, plumelike light green leaves, deeply cut, finely curled at edges. Very ornamental and so hardy that a moderately heavy frost improves rather than injures its quality. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 40c. Lb., \$1.50.

DWARF CURLED SCOTCH—Plant low and compact, but with large, bright, deep green leaves, curled, cut and crimped until the whole plant resembles a bunch of moss. One of the best sorts for use, and when well grown and cooked is one of the most palatable of vegetables. Pkts., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 20c. Lb., 60c.

SIBERIAN—Sometimes called Sprouts and German Greens. In this variety the very large, green leaves are comparatively plain in the center but coarsely cut and frilled on the edge. The plant is low but spreading and very hardy. Pkt., 5c. $\frac{1}{4}$ Lb., 15c. Lb., 50c.

KOHL-RABI

Culture—This is a favorite vegetable in Europe, where it is extensively grown for feeding cattle as well as for table use. The bulb is formed above ground, and, if used when young and tender, makes a most delicate dish for the table. One ounce will sow 150 feet of drill.

EARLIEST WHITE VIENNA—Greenish-white outside, with clear white flesh within. Smooth short leaf; good for forcing; fine quality. Pkts., 5c and 10c. Oz., 20c. $\frac{1}{4}$ Lb., 60c. Lb., \$2.00.

EARLIEST PURPLE VIENNA—Same in every respect as the Earliest White Vienna, except in the outside color. Pkts., 5c and 10c. Oz., 20c. $\frac{1}{4}$ Lb., 50c. Lb., \$2.00.



GRAND RAPIDS—As a Lettuce for greenhouse forcing this variety undoubtedly stands at the head of the list, being of quick growth, hardy, little liable to rot and remaining in condition several days after being fit to cut. The plant is upright and forms a loose cluster of large, thin, bright green leaves, savoyed, finely crimped at edges. The leaves do not wilt quickly after cutting, so that the variety will stand shipping long distances better than most sorts. Very attractive and desirable for garnishing. Pkts., 5c and 10c. Oz., 20c. $\frac{1}{4}$ Lb., 30c. Lb., \$1.00.

SIMPSON'S EARLY CURLED—(Seed White)—Leaves light green, slightly frilled and much blistered, crisp, sweet and tender. Especially adapted for sowing thickly and cutting when the plants are young. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 25c. Lb., 90c.

BLACK-SEEDED SIMPSON—One of the best for sowing outdoors where an exceedingly tender leaf is desired. Leaves ruffled and blistered, and even the large outer ones are very tender. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 25c. Lb., 90c.

PRIZE HEAD—Leaves finely curled and crumpled, bright green, tinged with brownish-red; very crisp, tender and sweet. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 25c. Lb., 90c.

PARIS WHITE COS—(Romaine)—Cos Lettuce is distinct in having long, narrow, spoon-shaped heads, folding into loose, sugar-loaf shaped heads, which blanch better by having the outer leaves drawn about them and tied. Pkts., 5c and 10c. Oz., 20c. $\frac{1}{4}$ Lb., 35c. Lb., \$1.25.

SALAMANDER—(Seed Black)—A large, compact, light green head, of excellent quality. The leaves are broad, thick, somewhat crumpled and closely overlapping, so that the inner ones are very finely blanched. The variety withstands hot weather remarkably well. It is one of the most satisfactory heading Lettuces for growing outdoors. Pkts., 5c and 10c. Oz., 20c. $\frac{1}{4}$ Lb., 35c. Lb., \$1.00.

All Prices Subject To Change Without Notice

LETTUCE—Continued

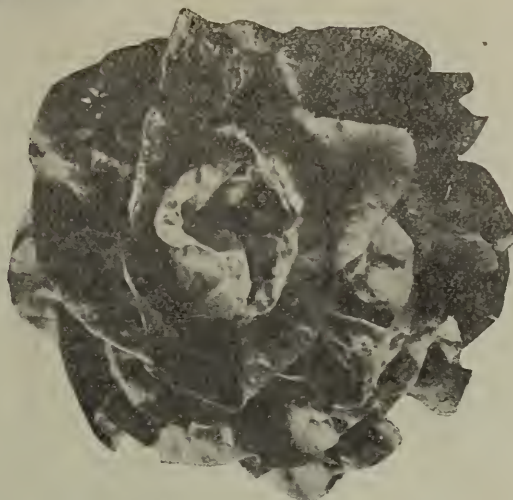
WISEMAN-DOWNS CO.'S NEW IDEAL HEAD LETTUCE—After experimenting with this wonderful variety for several years, we feel that we have at last a head lettuce which is truly the best for truckers as well as for the home garden. Those who were fortunate enough to get some of the seed the past season say "It is the best they have ever grown." The plants are of quick growth, practically all head and extremely handsome. From early Spring plantings in the open ground, they grow quickly to a diameter of 8 to 9 inches with the broad, light green outer leaves folding closely about the round solid head. It is one of the best heat resisting lettuces on the market, remaining in head without running to seed. We can highly recommend this sort for Spring or Fall planting. Pkts., 5c and 10c. Oz., 20c. ¼ Lb., 60c. Lb., \$2.60.

LARGE LOAF LETTUCE—This is extensively grown by the truckers of Baltimore County as well as around Norfolk. Plants are large and vigorous. Compact heads, broad leaves of a beautiful greenish color, very tender and crisp. Uniformly attractive and remains of excellent quality for a long time. Pkts., 5c and 10c. Oz., 20c. ¼ Lb., 35c. Lb., \$1.00.

BIG BOSTON—(Seed White)—Popular for outdoor culture; also much in demand as a compact, large heading, forcing sort. Plants large, very hardy and vigorous. Leaves broad, comparatively smooth, but wavy at edge, thin, very hard and crisp. Color bright light green, the head slightly tinged with reddish-brown. Grown extensively in the South for shipment North in the Winter. It usually heads up under cold weather conditions better than any other variety, and we therefore heartily recommend it, especially to the market gardening trade. Pkts., 5c and 10c. Oz., 20c. ¼ Lb., 30c. Lb., \$1.00.

MAY KING—(Seed White)—A handsome, extremely early, compact, cabbage or heading variety, forming very firm heads of medium size and excellent quality. Color light yellowish-green, tinged with reddish-brown when mature. Inner leaves blanch rich golden yellow; very tender and buttery. Plant very compact for so large a head. Exceptionally early outdoors, attaining a size suitable for use before other sorts, and also very satisfactory for forcing. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 35c. Lb., \$1.25.

BALTIMORE OAK LEAF—This Lettuce will resist the heat of Summer and stand longer before running to seed than any variety we have ever known. It makes a large, solid head, and is very popular with those who know it. Pkt., 10c. Oz., 20c. ¼ Lb., 50c. Lb., \$1.50.



New Ideal Lettuce

BALTIMORE CABBAGE LETTUCE—One of the best for Fall planting. Forms large solid heads of a beautiful light green color. Slow going to seed. Will stand heat well. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 35c. Lb., \$1.25.

WHITE SEED SUMMER—Will stand the summer heat better than most sorts, and will make beautiful solid heads. Leaves are of a beautiful green and are very tender and buttery. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 35c. Lb., \$1.00.

DEFIANCE—This sort stands the Summer heat better than any other. Forms very large and firm heads. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 30c. Lb., \$1.00.

MAMMOTH BLACK SEEDED BUTTER—A smooth-leaved Lettuce, forming very large, compact, cabbage-like heads of thick, yellowish-green leaves, the inner ones beautifully blanched, very crisp, tender and buttery. Pkts., 5c and 10c. Oz., 20c. ¼ Lb., 35c. Lb., \$1.25.

BIG HEAD—This certainly is rightly named, as it is the largest heading variety. Very solid and crisp, tender and of excellent flavor. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 30c. Lb., \$1.00.

WATERMELON—(German, Wasser Melone)

One Ounce of Seed to 30 Hills

Culture—Watermelons require a rich sandy loam, which should be well worked. Put 10 to 12 seeds in a hill. When the plants have formed the first pair of rough leaves they should be thinned so as to leave 2 or 3 of the strongest and best to each hill. Make hills about 10 feet apart.



MONTE CRISTO, OR "KLECKLEY SWEETS" WATERMELON.

FORDHOOK EARLY—An extra early Melon of fine flavor and large size. Color a uniform medium green. Flesh bright red and sweet. Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 50c.

MEIVERS, OR WONDERFUL SUGAR—Oblong in shape and uniformly large. The flesh is of a soft pale pink, crisp and juicy. The Melons have a solid heart, free from cracks. Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 60c.

LORD BALTIMORE—Very large, of oblong shape. Very sweet, and of a beautiful crimson color. Thin, hard rind. Good shipper. Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 50c.

DIXIE—A popular market sort; vine vigorous, large growing and hardy; fruit medium sized to large, about ¼ longer than thick. Color of skin dark green striped with a lighter shade rind, thin, but tough; flesh bright scarlet, ripens close to the rind, is of best quality and free from the hard, coarse center, which is so objectionable a feature of many shipping Melons. Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 50c.

PRESERVING CITRON, OR MELON—A large-fruited variety, pure white flesh and thin rind. This is expensive when bought, yet can be grown and preserved by any energetic housewife, who will then also know it to be absolutely pure and good. It is planted like watermelon. Red seeded. Pkt., 5c. Oz., 10c. ¼ Lb., 25c. Lb., 75c.

TOM WATSON—This new Melon has surprised everybody by its sudden rise in popularity. Although very new, it already occupies a very prominent place in all markets and is everywhere called for. It is a long green variety, covered with a fine netting, giving it a most attractive appearance. The flesh is of most superb quality and intensely red color. The rind is thin, but hard and tough, making it an excellent market and shipping sort. Pkt., 5c. Oz., 10c. ¼ Lb., 25c. Lb., 75c.

FLORIDA FAVORITE—A standard sort. Long and of uniform size. Color a beautiful green. Flesh very red, with a taste that lingers. It has long been a favorite with the truckers and market gardeners. Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 50c.

KLECKLEY SWEETS—Well does it deserve its name. It has a sweetness peculiarly all its own. The skin is a rich dark green, the flesh bright scarlet, ripening close to the rind. The Melons average about 20 inches long and ripen quite early. Our strain is from the original stock and we can recommend it very highly. Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 50c.

TRIUMPH—Very early, very prolific and of uniform size. Cross between the Duke Jones and the Kolb Gem, and has the good qualities of both. Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 50c.

KOLBS GEM—Vines of medium size, but remarkably vigorous and healthy. Leaves of medium size, deeply cut, with a peculiar frilled edge. Fruit of the largest size, round or slightly oval, marked with irregular mottled stripes exceedingly light green. Outer rind or shell of dark and hard and firm, making it a good sort for shipping long distances. Flesh bright red, solid, a little coarse, but sweet and tender. Pkt., 5c. Oz., 10c. ¼ Lb., 15c. Lb., 40c.

LIGHT ICING—Flesh bright red, outside color very light green, round in shape, similar to Dark Icing, except the color of the rind. Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 60c.

SWEET HEART—Fruit large, oval, mottled light and dark green. Flesh bright red, solid, tender and sweet. Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 60c.

GYPSY, OR GEORGIA RATTLESNAKE—One of the largest varieties and stands shipment long distances. Fruit cylindrical, square at the ends, smooth, distinctly striped and mottled light and dark green. Flesh bright scarlet and very sweet. Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 50c.

All Prices Subject To Change Without Notice

MUSK MELON

One Ounce of Seed to 50 Hills

Culture—Plant the seeds in hills 6 feet apart, each way, dropping 10 to 12 seeds in a hill. After the plants begin to crowd and the striped beetles are pretty well gone thin to 4 of the most vigorous plants in a hill. Give frequent but shallow cultivation, until the plants make runners so long that this is impracticable. Rich earth for the young plants is far better than manure, but if the latter must be used, see that it is well rotted and thoroughly mixed with the soil. If the plants grow very rank, more and finer fruit will be secured by allowing the main branch to continue growing, but pinch off the end of each side branch after it has one fruit set.



Knight Cantaloupe

FORDHOOK—An extra early salmon-fleshed variety which is very attractive in appearance and of delicious flavor. Medium size, heavily netted and thick, juicy flesh. Pkt., 5c. Oz., 15c. ¼ Lb., 40c. Lb., \$1.25.

NETTED ROCK—About the same size as "Rocky Ford," but more heavily netted. The seed cavity is small and flesh, which is green, thick and sweet, containing a high percentage of sugar. An important feature of this melon is its ability to withstand rust and blight, as it is nearly proof against either. Pkt., 5c. Oz., 15c. ¼ Lb., 40c. Lb., \$1.25.

MARTYNIA—Gemschorf—Culture—The seedpods are used for pickling, when gathered young and tender. Sown in the open ground in May, in hills 3 feet apart each way, or in a hotbed, and afterwards transplant. If once planted in the garden voluntary plants are likely to spring up the following year from scattered seeds.

Martynia Proboscidea—Pkt., 5c. Oz., 25c. ¼ Lb., 75c. Lb., \$2.50.

ANNE ARUNDEL—Large, green fleshed, deeply netted. A good shipping Melon. Pkt., 5c. Oz., 10c. ¼ Lb., 25c. Lb., 75c.

CLARK'S GEM—Oblong in shape, green fleshed, excellent flavor, heavily netted and very small seed cavity. Pkt., 5c. Oz., 10c. ¼ Lb., 40c. Lb., \$1.25.

McLEAN'S FAVORITE—Round, slightly flat on both ends, green fleshed and of excellent flavor. Not quite so heavily netted as Clark's Gem. Small seed cavity. Pkt., 5c. Oz., 10c. ¼ Lb., 40c. Lb., \$1.25.

ROCKY FORD—One of the earliest and best Melons grown. The vines are exceedingly healthy and vigorous, comparatively short and branching, producing an enormous quantity of fruits during the season. The Melons are very uniform in size and shape, being nearly round or slightly oval. Skin a rich greenish gold when fully ripe; the netting is fine and prominent. In appearance the Melon is very attractive. The flesh is light green in color, very deep, ripening clear to the rind, which is very thin. In flavor it is peculiarly rich, luscious and free from stringiness. Pkt., 5c. Oz., 10c. ¼ Lb., 30c. Lb., 90c.

W.-D. CO.'S EXTRA EARLY KNIGHT—This is without a doubt, the best yet. We can safely say it will produce more and better fruit than any cantaloupe on the market today. In fact, every grower of Melons who has tried this sort will unhesitatingly say: "There is none better." The seed we offer is from the true stock, and must not be confounded with seeds sold at a less price by unscrupulous dealers. Grown by us under our own supervision, where it can be carefully watched, and in one of the best sections of the country for the growing of cantaloupes, there is no reason why this should not rank as the best on the market. In quality it has no rival. Fruit very uniform in size, averaging about 6 inches in length from stem to blossom end. Very thick meat, of a greenish color. Small seed cavity. Thin rind, beautifully netted. Slightly pointed at the stem end and rather blunted at the blossom end. For shipping it is unexcelled. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 40c. Lb., \$1.25.

EMERALD GEM—Among the standard varieties this has long been a leader. The flesh, which is thicker than any other Melon of the same shape, is a rich salmon shade and ripens extremely close to the rind. It is exceedingly sweet and one of the Melons when you once eat of it you will remember it for a long while. Pkt., 5c. Oz., 10c. ¼ Lb., 25c. Lb., 75c.

OSAGE, OR MILLER'S CREAM—A medium to large sized Melon of excellent quality. Vines vigorous and productive. The fruits are oval, dark green in color, slightly ribbed and partly covered with shallow gray netting. The flesh is salmon colored, thick, fine grained and highly flavored. Pkt., 5c. Oz., 10c. ¼ Lb., 25c. Lb., 85c.

NETTED GEM—Grows remarkably uniform; thick meat; flesh light green in color and of fine, luscious flavor; skin green, regularly ribbed and thickly netted; very productive and extra early in ripening; will keep for nearly a week after picking, and is especially suited for shipping in baskets or crates. Pkt., 5c. Oz., 10c. ¼ Lb., 25c. Lb., 75c.

BALTIMORE NUTMEG—Fruit uniform in size and of attractive appearance. Green flesh and very sweet flavor. An excellent shipper. Pkt., 5c. Oz., 10c. ¼ Lb., 25c. Lb., 75c.

EARLY HACKENSACK—It is well netted, deeply ribbed, making it ideal for cutting in slices on account of its large size. The flesh is light green, very thick and ripens well to the rind. The shape is even more flat than the Emerald Gem. Pkt., 5c. Oz., 10c. ¼ Lb., 25c. Lb., 90c.

JENNY LIND—A small, flat, very early sort, heavily netted and ribbed with green flesh, an altogether good variety to plant with others, using this for the first picking. Pkt., 5c. Oz., 10c. ¼ Lb., 25c. Lb., 90c.

PAUL ROSE—The fruits are nearly round, ribbed and heavily netted. The flesh is thick, of rich deep orange color, and ripens close to the rind, with small seed cavity. It is an excellent shipper. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 25c. Lb., 60c.

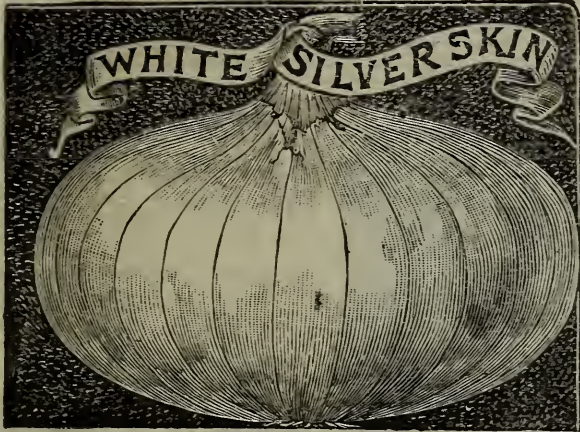


Rocky Ford Melon

All Prices Subject To Change Without Notice

ONION SEEDS— (German, Zwiebel)

Culture—A strong, deep, rich and loamy soil is most suitable for this crop. Muck beds well drained to the depth of 2 feet give large yields. A black sandy loam is also excellent. The ground should be heavily dressed with well rotted manure and plowed a moderate depth, taking a narrow furrow in order to more thoroughly mix the manure with the soil; if possible, the plowing should be done in the Fall. As early in the Spring as the ground is in working order harrow it thoroughly and make as fine and level as possible; sow thinly in drills $\frac{1}{4}$ -inch deep and 14 inches apart.



YELLOW GLOBE DANVERS—One of the most popular sorts for home or market gardens. Handsome, round, yellow Onion. A splendid keeper and one that yields well. Can highly recommend this for growing either large or small Onions. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 40c. Lb., \$1.50.

LARGE RED WETHERSFIELD—This is a well-known sort. A good yielder and an excellent keeper, and where red Onions are wanted there is none better. Pkts., 5c and 10c. Oz., 20c. $\frac{1}{4}$ Lb., 50c. Lb., \$1.75.

LARGE YELLOW STRASBURG—A good keeping sort. Very popular with those who grow Onion sets for market. Pkts., 5c and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 40c. Lb., \$1.50.

RED WETHERSFIELD—The most popular red variety for main crop. It makes a large, thick bulb, crops abundantly, ripens early and sells readily on all markets where a red Onion is wanted. Our seed is extra selected; none better can be bought. Pkts., 5c and 10c. Oz., 20c. $\frac{1}{4}$ Lb., 50c. Lb., \$1.75.

AUSTRALIAN BROWN—Is of medium size, wonderfully hard and solid, and most attractive for market, both as to form and appearance. The color of the skin is a clear amber-brown. So widely contrasted from any other Onion is this color that it will be noticed on the market, and when once bought purchasers will be likely to return and call again for "those beautiful brown Onions." Pkts., 5c and 10c. Oz., 20c. $\frac{1}{4}$ Lb., 50c. Lb., \$1.50.

YELLOW FLAT DANVERS—Pkts., 5c. and 10c. Oz., 15c. $\frac{1}{4}$ Lb., 40c. Lb., \$1.50.

WHITE SILVERSKIN—This is the most popular of all white Onions. The skin and flesh is a silvery white, mild flavor and flat shape. Pkts., 5c and 10c. Oz., 25c. $\frac{1}{4}$ Lb., 75c. Lb., \$2.50.

PRIZETAKER—Flavor very mild and delicate. A very handsome Onion of the largest size and nearly globular in form. Skin is yellowish-brown, flesh white. If started very early in hotbeds it will produce a mammoth Onion the first season. Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ Lb., 60c. Lb., \$2.00.

ONION SETS

To raise Onion sets from seed, use good ground, prepared as for large Onions, and sow the seed very thick in broad drills, using 40 to 60 pounds per acre. If the seed is sown thin, the bulbs will not only be too large for sets, but will not be of the right shape, and if sown thick on poor land they will be necky and bottle shaped. Onion seed sown for sets may be sown somewhat later than if a crop of large bulb is desired.

WHITE SILVERSKIN—Qt., 20c.

YELLOW DANVERS—Qt., 20c.

Owing to market changes, we cannot quote prices on larger quantities except on application.

OKRA, or GUMBO

Cultivated for its young seed pods, which are used in soups, stews, catsups, etc. After danger of frost is past, the ground being warm and in good condition, plant in rows about 2 $\frac{1}{2}$ feet apart, covering with about an inch of fine soil, firmly pressed down. When about 3 inches high thin to about 1 foot apart in the row.

DWARF PROLIFIC

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

WHITE VELVET

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

PARSLEY

(German, Petersilie)

Parsley succeeds best on rich, mellow soil. The seed is very slow in germinating, and should be sown as early as possible in the Spring, in drills 1 to 2 feet apart, covering not more than $\frac{3}{4}$ inch with fine soil, firmly pressed down. When plants are well up thin to 4 inches apart in the row. When the plants of the curled varieties are about 3 inches high cut off all the leaves. The plant will then start a new growth of leaves, which will be brighter and better curled. Every cutting will result in improvement.

DWARF CURLED—Handsomely crimped and curled, bright green color. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 20c. Lb., 60c.

MOSS CURLED—Vigorous, compact growing variety. Excellent for garnishing and flavoring. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 20c. Lb., 60c.



MUSHROOM SPAWN

Culture—Mushrooms may be grown in cellars, under benches in greenhouses or in sheds wherever the temperature of 50 degrees can be kept up during the Winter. The beds should be made from November to February, according to the time the Mushrooms are wanted, and it requires about two months for them to begin bearing. Secure fresh horse dung, free from straw and litter and mix an equal bulk of loam from an old pasture with it. Keep this under cover, taking care to turn it every day to prevent it from heating, until the pile is large enough to make a bed of the required size. Three or four feet wide, eight inches deep and any length desired are the proper proportions for a bed, but this may be varied. Prepare the mixture of loam and manure, making the bed in layers and pounding down each with the back of a spade. Leave this to heat through for a few days, and as soon as the heat subsides to 90 degrees make holes in the bed about a foot apart each way, into which put pieces of spawn 2 or 3 inches in diameter; fill up the hole with compost, and at the expiration of a week or 10 days the spawn will have thoroughly diffused itself through the bed. Spread layer of soil over the heap to the depth of 2 inches, and cover with 3 or 4 inches of hay, straw or litter. Examine bed often to see that it does not get dry. Take special care, however, when water is given that it be at a temperature of 100. One brick to a bed 6 feet square.



Much interest is being shown in the growing of Mushrooms, and many persons will consider going in the business. Those who have this in mind should read either or both of the books offered below. These books were written by men who have made a business of growing the crop for market and the information given will be extremely valuable, as they tell the whole story from the making of bed to marketing the crop.

BEST ENGLISH MILLTRACK SPAWN—Brick, 1 $\frac{1}{4}$ lbs., 20c. 10 lbs., \$1.75. 100 lbs., \$13.00.

IMPORTANT BOOKS ON MUSHROOM CULTURE

"Mushrooms: Edible, Poisonous, Etc." by Atkinson. The best book for the amateur; finely illustrated. Price, postpaid, \$3.00.

"Mushrooms: How to Grow," by Wm. Falconer. Price, postpaid, \$1.00.

NASTURTIUMS

The Nasturtium is one of the popular flowers of the present time and is continually growing in favor for the table. The leaves are used for salad and the seed for pickles.

TALL—Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 25c. Lb., 75c.

DWARF—Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 25c. Lb., 75c.

All Prices Subject To Change Without Notice

PEAS

Culture—For early Peas the soil should be light and warm, but for general crop a moderately heavy soil is better. Fresh manure and very rich or wet mucky soil should be avoided, as they cause a rank growth of vine at the cost of the quality of the Peas; such soil is often the cause of early sorts maturing unevenly. Sow as early as possible a few of some early variety on warm, quick soil, prepared the fall before. The general crop can be delayed until later, but we have met with better success from sowing all the varieties comparatively early, depending for succession upon selecting sorts that follow each other in maturity. The Peas will give quicker returns if covered only 1 inch deep, and where earliness is most important they may be treated in that way. Larger pods and more of them will be produced if the seed be planted in trenches 3 to 6 inches deep and covered with only 1 or 2 inches of soil. When the plants are 5 or 6 inches high fill the trench level with the surface; this will secure deep rooting, prevent mildew and prolong the bearing season. If the Peas be covered to the full depth at first, or if water be allowed to stand in trenches, they will not germinate or grow well.

EXTRA EARLY VARIETIES—Large Podded Alaska

Vines, 2½ feet. The pods are well shaped and well filled, containing usually 6 to 8 Peas of a beautiful green color, both Peas and pods retaining their fresh green color longer after being picked than other kinds, this being a point of particular value when they are grown for shipping purposes. We strongly recommend this Pea to our customers, believing it will bring them increased profits from their Pea crops, on account of its extreme earliness, well-filled pods, great productiveness and especial value as a market sort. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.



Prolific Early Market, or New Later.

PEDIGREE EXTRA EARLY—Introduced several years ago; has steadily increased in favor until now the truckers all want it. Early as Alaska, large pods, white seeded, very prolific. All mature at one time and can be gathered in one picking. Pt., 15c. Qt., 25c. Pk., \$1.75. Bu., \$7.00

THOMAS LAXTON—Closely resembling Gradus in habit, rapidity of growth, earliness of foliage; 26 to 30 inches high, and much harder in every respect than the Gradus. Pods, 4 to 4½ inches long, round and well filled. Ready to pick 52 days from planting. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

PREMIUM GEMS—Strong and vigorous in growth. Height, about 15 inches; dark foliage, bearing pods on both sides of the stalk, beginning near the ground. Pods, light in color and blunt at the ends. Seed is green, wrinkled and medium in size. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

AMERICAN WONDER—Vigorous, productive vines, with a luxuriant foliage, producing the leaves on one side of the stalk, and growing from 9 to 12 inches high. On account of its dwarf habit of growth it is very desirable for private garden use. Pods are light colored, straight, round, about 2½ inches long and blunt at the end. Fit for picking 55 days from planting. Seed is wrinkled green, medium in size and square at the ends. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

NOTT'S EXCELSIOR—Resembling Gems in habit, but more dwarf and uniform in growth. Height, 12 to 17 inches, with rather light foliage. Pods, are light in color, round, about 2½ inches long, blunt at the ends. Fit for picking 56 days from planting. Seed green, wrinkled, medium in size, and square at the ends. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

GRADUS, OR PROSPERITY—A large, wrinkled, early Pea, with a pod nearly as long as the Telephone; tender and of good quality and flavor. Very quick to germinate and mature with the other sorts. This Pea will not stand adverse conditions, however, as well as some of the other sorts, and seed must be planted after all danger of frost has passed. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

BLUE PETER, OR BLUE TOM THUMB—One of the earliest and hardest of the dwarf varieties; blue seed, dark green pods; large Peas of excellent quality; much superior to the White Tom Thumb. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

ALASKA—Vines, 2½ feet. Seed small, smooth, and blueish-green in color. Unequalled evenness in growth of vine and early maturity of pods, which are filled with medium sized, bright green Peas of good flavor. Pt., 15c. Qt., 25c. Pk., \$1.75. Bu., \$7.00.

FIRST AND BEST—Height, 2½ feet. Very early and prolific. White seeded. Pt., 15c. Qt., 25c. Pk., \$1.75. Bu., \$7.00.

TRIUMPH—White seeded. Early and prolific. Pt., 15c. Qt., 25c. Pk., \$1.75. Bu., \$7.00.

RURAL NEW YORKER—Height, 2½ feet. Matures among the earliest. Pt., 15c. Qt., 25c. Pk., \$1.75. Bu., \$7.00.

DEXTER—Height, 2½ feet. Early and very prolific. Pt., 15c. Qt., 25c. Pk., \$1.75. Bu., \$7.00.

PHILADELPHIA—Extra early. Pt., 15c. Qt., 25c. Pk., \$1.75. Bu., \$7.00.

PROLIFIC EARLY MARKET, OR NEW LATER—The new Pea, just recently introduced, has proven to be the finest, largest and most prolific extra early variety on the market. It is larger than the Alaska, a few days later and more prolific than any of the other sorts. Will always command a higher price in the markets because of its handsome and showy pods. It is just the Pea for the trucker and also the home garden. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

BOUNTIFUL—Of recent introduction. Early and very prolific, vines of even growth and bearing any number of well-filled pods, which are of a light green color, containing 6 to 8 peas to the pod. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

LARGE PODDED SUGAR VARIETIES

ADMIRAL—A long vine, medium season pea, bearing pods in profusion. About the same size and shape as First and Best, but of much better flavor. The small size and fine flavor of the pea, with its great hardness, make it a most desirable sort for canners who wish a sweet wrinkled pea of small size. Vines 48 inches high, with medium green foliage. Pods 2½ inches long, medium light in color and blunt. Fit for picking 68 days from planting. Seed small, wrinkled, white. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

LONG ISLAND MAMMOTH—Very popular with market gardeners who want a large, handsome pod of a dark green color. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

DWARF TELEPHONE—Vines 18 to 26 inches high, with rather coarse foliage, medium light green, bearing pods, broad, straight and about 4 inches long. Pale green in color and well filled with peas of excellent flavor. Ready for picking from 62 to 65 days from planting. Seed pale green, large much wrinkled. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

ALDERMAN—This fine new pea is of the Telephone type, excepting that the pods are of darker color. The growth is strong, robust and exceedingly productive. Peas are of large size and unsurpassed in quality. We highly recommend it to market gardeners as a splendid yielder of very large and attractive pods. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

SUTTON'S PIONEER—One of the latest achievements in the perfection of early peas, and we cannot speak too highly of it. Sutton's Pioneer was introduced to the gardening public several years ago and since then, the demand has grown far ahead of the supply. It is a first early sort and very prolific. One gardener says: "I never before grew such peas, the large handsome pods were packed with plump, tender, rich-flavored peas." This variety presents a rich appearance while growing on account of the large number of pods on each vine. Vines reach a height of 2 feet, are very strong and do not need support unless the soil is very rich. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

Our Seeds Are Best by Test

PEAS—Continued

MEDIUM EARLY WRINKLED VARIETIES

ABUNDANCE—Vigorous in growth and productive, bearing pods in great abundance, although of medium size and of excellent quality. Very similar in every respect to Hornford's Market Garden, except that it is a few days later, being fit for picking 71 days from planting. Pods are dark green and blunt. Seed, green, wrinkled and medium in size. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

STRATAGEM—A vigorous, hardy and luxuriant vine, bearing large pods, containing Peas of excellent quality. A heavy cropper, but it has a tendency to sport. Vines, 20 inches. Foliage, dark green. Pods, 3½ inches long, straight, broad pointed, gray-green in color. Fit for table use 56 days from planting. Seed, very large, green, wrinkled. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

EVERBEARING—Vigorous and bracing in habit of growth. Height, 2½ to 3 feet. Pods, 2¾ to 3 inches long, broad, light colored and blunt. Fit to pick 70 days from planting. Seed, green, wrinkled and large in size. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

SHROPSHIRE HERO—Strong, vigorous vines, 42 inches in height. Pods, 3 to 3½ inches long, blunt, light green in color. Fit for table use 68 to 73 days from planting. Seed, large, green and wrinkled. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

ADVANCER—Vines upright and vigorous in growth, hardy and productive. Height, 36 inches. Foliage, dark green. Pods, 2½ to 2¾ inches long, round, dark colored and blunt. Fit for picking 61 days from planting. Seed, green, wrinkled and medium in size. A very fine Pea for canners' use. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

HORSEFORD'S MARKET GARDEN—Strongly resembling Premium Gem in habit of growth, but about one-third taller, vines growing 26 to 30 inches long. Foliage, dark green. Pods, light colored, straight, about 2½ inches long and blunt. Fit for picking 68 days from planting. Seed, green, wrinkled and medium in size. A very popular Pea with the canners and market gardeners on account of its excellent quality, being as sweet as Telephone and very much more tender. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

YORKSHIRE HERO—Hardy, productive and upright in growth, bearing near the top of the stalk broad, pointed pods with Peas of a good quality. Foliage, dark green, 23 to 28 inches in height. Pods, 2½ to 3 inches long, blunt, light green in color. Fit to pick 68 to 73 days from planting. Seed large, green and wrinkled. Qt., 30c. Pk., \$2.25. Bu., \$8.00.



Pride of Market Peas

MEDIUM AND LATE VARIETIES

HEROINE—A medium early, green, wrinkled Pea. Pods, deep green in color. Very prolific. Height 2 to 2½ feet. An excellent Pea for the home garden. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

CHAMPION OF ENGLAND—Strong and vigorous in growth, 42 to 50 inches in height. Foliage, medium green. Pods, 2½ to 3 inches long, blunt, medium dark green in color. Fit to pick 63 to 73 days from planting. Seed, large, green and very much wrinkled. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

FRENCH CANNER—Height, 3½ feet; very prolific, bearing an abundance of long pods. Extensively planted by the truckers for canning. Seed, white and small. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

IMPROVED SUGAR MARROWFAT—The truckers' favorite. Late in maturing and a tremendous yielder. Pods well filled with Peas of a very sweet flavor. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

PRIDE OF THE MARKET—Of fine growth and general appearance, both vine and pod, and closely resembles the Stratagem, except that the vine is not quite so long, and the pods are deeper green in color. The vine is 20 inches high. Foliage, dark green color. Pods are 3½ inches long, broad and dark in color. Fit for table use 61 days from planting. Seed, blue, slightly dented and large. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

TELEPHONE—Vines and leaves large and coarse. Foliage, light green in color. Height, 40 to 50 inches. Pods, 4½ inches long, broad, pointed and medium in color. Fit to pick 62 to 65 days from planting. Seed, large, green and wrinkled. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

LAXTONIAN—Vine 1½ feet in height with dark green foliage. Large curved dark green pods, pointed at the ends. Seed green, wrinkled, large sized. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

TELEGRAPH—Closely resembling Telephone in all respects, except that the pods are a deeper shade of green, and the Peas are of only fair quality, although the pods are of very fine appearance. Pods, 4 to 4½ inches long, medium dark green, pointed. Fit to pick 65 days from planting. Seed, large, blue and round, dented. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

LITTLE MARVEL—Height of vine 18 inches with dark green foliage. Small blunt dark green pods. Fit for table use 53 to 55 days from planting. Seed blue green, small sized, wrinkled. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

THE LINCOLN—1½ to 2 feet in height, foliage medium green. Pods medium sized, curved and pointed and dark green in color. Seed blue green mixed with yellow, small sized and wrinkled. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

WHITE MARROWFAT—Vines hardy, strong, vigorous and bearing broad thick leathery pods near the top of the vine, and containing peas of a poor quality. Height 45 to 50 inches, foliage light green in color, pods 3 inches long, blunt and light green. Ready to pick 69 days from planting. Seed large, smooth, white. Pt., 15c. Qt., 25c. Pk., \$1.75. Bu., \$7.00.

PRINCE EDWARD—This variety produces enormous pods 7 inches long and upwards, containing from 11 to 13 large, dark green peas and are mostly produced in pairs. This makes them much less tedious to pick. The plant is of strong growing habit, requiring stakes, but produces enormous crops. The pods are of unusually attractive appearance when placed on market and are always saleable. We take great pleasure in recommending this new variety to our customers, as it is one of most excellent quality and comes in late after other varieties are too old. Pt., 20c. Qt., 30c. Pk., \$2.25. Bu., \$8.00.

EDIBLE PODDED PEAS

MELTING SUGAR—One of the best varieties; a favorite. Pt., 20c. Qt., 40c.

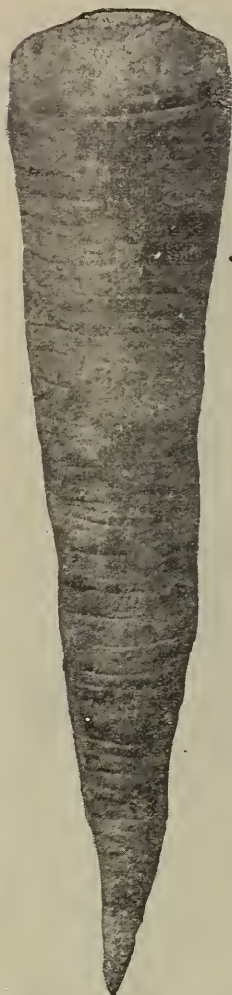
TALL GRAY SUGAR—Pt., 20c. Qt., 40c.
DWARF GRAY SUGAR—Pt., 20c. Qt., 40c.

PEAS—SWEET FLOWERING

To a greater extent than any other ornamental flower have been improved in form and color, until now no garden is complete without them, as no flowers can be so cheaply, successfully and profusely grown and no flowers provide more desirable table decorations, because of their rich and endless variety of high coloring and delicate tints. See list of Flower Seeds, page 27.

All Prices Subject To Change Without Notice

PARSNIP



Hollow Crown Parsnip

The value of the Parsnip as a culinary vegetable is well known, but is not generally appreciated at its full value for stock feeding. On favorable soil it yields an immense crop of roots, more nutritious than turnips and very valuable for dairy stock.

Culture—Parsnips are usually grown on deep, rich, sandy soil, but will make good roots on any soil which is deep, mellow and moderately rich. Fresh manure is apt to make the roots coarse and ill shaped. As the seed is sometimes slow and uneven in growth, it should be sown as early as possible in drills 2½ feet apart, cover ½ inch deep and press the soil firmly over the seed. Give frequent cultivation and thin the plants to 6 inches apart in the row.

HOLLOW CROWN, OR GUERNSEY—An excellent variety for the table. Roots long, with smooth white skin, uniform in shape, tender and of the best quality. The variety is easily distinguished by the leaves growing from the depression on top or crown of the root. Pkt., 5c. Oz., 10c. ¼ Lb., 30c. Lb., \$1.00.

PEANUTS

NEW MAMMOTH BUSH PEANUT—This peanut does exceedingly well in the North, making compact bushes 18 inches high, with heavy, erect stalks and large leaves. They are good producers, and do best on light sandy soil. Easily grown and always sure to make a good crop. Pt., 15c. Qt., 25c.

EARLY SWEET PEANUT—Let the children grow some peanuts. The Early Sweet is very easy to raise. It stands the heat and drought like a salamander, and is so early it ripens in the Northern States and Canada, while its quality is of the very best, the nuts being exceedingly sweet and rich when roasted. Any light, sandy, or loose soil suits them. Pt., 15c. Qt., 25c.

Market Gardeners, Institutions or Planters wishing seeds in large quantities are requested to mail us a list of their wants. A letter of inquiry may save you dollars, if you are needing considerable quantities of seed.

PEPPER



Bell or Bull Nose

Culture—Peppers are most largely used for seasoning meat and vegetable dishes; also for making chowchow and chili sauce. The culture is the same as for Eggplant and the plants need quite as much heat to perfect them. Sow seed early in hotbed, or about middle of Spring in open seed bed, the soil being light and warm. When 3 inches high transplant in rows about 2½ feet apart and 2 feet apart in the row. Cultivate and keep free from weeds. Guano, hen dung or any other bird manure hoed into the surface soil when the plants are about 6 inches high will undoubtedly increase the product.

RED CHERRY—A second early sort. Plant tall, bearing a profusion of round, bright red fruits, which are very pungent when ripe. A very ornamental plant when in fruit. Pkts., 5c and 10c. Oz., 25c. ¼ Lb., \$1.00.

RED CHILI—A late variety. Pods bright, rich red, about 2 inches long, 1/3 to ½ inch in diameter at the base, tapering to a sharp point, and exceedingly pungent when ripe. Pkts., 5c and 10c. Oz., 25c. ¼ Lb., \$1.00.

LONG RED CAYENNE—A well-known medium early variety, having a slender, twisted and pointed pod about 4 inches long, color, deep green, when fruit, is young, bright red when ripe. Pkts., 5c and 10c. Oz., 35c. ¼ Lb., 60c.

RUBY KING—An improved American variety, very large and attractive. The plant is about 2½ feet high, vigorous, compact and productive. The fruits are often 4 to 4½ inches long, and of deep green color when young, bright red when ripe. The flesh is thick and milk flavored. One of the best varieties for mangoes or stuffed peppers. Pkts., 5c and 10c. Oz., 25c. ¼ Lb., 60c.

LARGE BELL, OR BULL NOSE—Our stock of this well-known variety, sometimes called Sweet Mountain, is very superior. Plant vigorous, about 2 feet high, compact and very productive, ripening its crop uniformly and early. The fruits are large, with thick, mild flesh of excellent quality, for use in salads and mangoes or stuffed peppers. The color is deep green when fruit is young, bright crimson when ripe. Pkts., 5c and 10c. Oz., 20c. ¼ Lb., 60c.

NEW CHINESE GIANT PEPPER—The fruits of this variety are of monstrous size, even when put alongside such a large kind as Ruby King. The shape is more blocky than Ruby King, being almost square, or about the same diameter both ways. Color, brilliant glossy scarlet. It is so immensely productive that frequently a half dozen peppers will touch one another. The habit of growth is strong and stocky, about 18 to 24 inches high. Usually three or four fruits are set first near the base, and while these are ripening, a second setting is growing higher up. Flesh is thick and meaty, and entirely free from any fiery flavor. Pkts., 5c and 10c. Oz., 25c. ¼ Lb., 75c. Lb., \$3.00.

PUMPKIN

Culture—Pumpkins are not so particular in regard to soil as melons or cucumbers, but are cultivated much the same. Plant seed about 10 feet apart in hills, dropping about 10 seed to a hill. When plants are well started, thin to 3 plants to each hill. To plant in corn, place seed about every third or fourth hill after the last working.



Maryland Sweet Potato Pumpkin

LARGE CHEESE—Skin rich salmon color, fine grain, dry and sweet. Pkt., 5c. Oz., 10c. ¼ Lb., 15c. Lb., 50c.

MARYLAND SWEET POTATO—This is without doubt the best for table use. Resembling somewhat the Cushaw, but much prettier in color. A handsome green and white striped. Flesh yellow, solid, fine grained and a delicious flavor. Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 60c.

CUSHAW, OR WINTER CROOKNECK—An old standard variety, which is very popular. It is also used for feeding stock. Long yellow crookneck, fine grained yellow flesh, very solid. Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 60c.

TENNESSEE SWEET POTATO—One of the best sorts for pies. Pear shaped, medium size, flesh and skin creamy white, fine grained, sweet and excellent keeper. Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 60c.

WINTER LUXURY—This is one of the best pie pumpkins in existence, and its winter-keeping qualities are almost unequalled. Is slightly oval in shape and of medium size. Evenly and finely netted and is a yellowish russet color. The flesh is very tender, sweet and rich golden in color. A great producer. Pkt., 5c. Oz., 10c. ¼ Lb., 25c. Lb., 75c.

CONNECTICUT FIELD PUMPKIN—Usually planted for feeding stock. So well known that it needs no description. Pt., 15c. Qt., 20c. Lb., 25c.

Best By Every Test

RADISH

One Ounce of Seed to 100 Feet of Drill

Culture—For forcing sow in hotbeds or under glass in rich sandy soil, made perfectly level. Scatter evenly over the surface from 50 to 100 seeds to the square foot and cover with $\frac{1}{2}$ inch of soil sifted on. Careful watering to keep soil moist, even, moderate temperature and good ventilation are required for rapid and best root development. If the bed is a good one the whole crop can be marketed in 21 to 40 days after planting. For open ground culture sow on rich sandy soil as soon in the Spring as it is fit to work in drills 12 to 18 inches apart and thin out the plants to prevent crowding. A good dressing of nitrate of soda will greatly stimulate growth and insure tender, brittle roots. Successional sowings from 1 week to 10 days apart will keep up a supply. After the hot weather of Summer begins, it is better to sow the Summer and Winter varieties, as they do not become tough and stringy nor pithy so quickly as the earlier sorts.



Early Scarlet Globe.

EARLY LONG SCARLET, SHORT TOP—This is a standard, most excellent sort either for the home garden or the market. Tops short and comparatively small. Roots smooth, slender, uniform in shape and a very attractive bright red in color. They continue crisp until fully matured, when they are about 6 inches long. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

CINCINNATI MARKET—Roots very slender, of a deep red color and longer than the Long Scarlet, often becoming 7 inches long. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

WHITE TIPPED SCARLET—A good forcing variety. Small size and very attractive, being a handsome, bright scarlet, with white tip. Very early and of good quality. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

PRUSSIAN GLOBE—The earliest forcing Radish. Roots small and round. Deep scarlet with white flesh. Very tender. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

FRENCH BREAKFAST—Very rapid grower. Mild and tender. Beautiful scarlet color, white tipped. Oblong shape. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

EARLY WHITE TURNIP—For forcing. Very tender and crisp. Turnip shaped. Bunched with the Scarlet Globe it makes a splendid contrast. Pkts., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

TRIUMPH—Beautiful and odd in color. The root is globe shaped, having bright scarlet stripes on a white ground. Excellent for forcing. Short top, small leaves and matures very quickly. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

ICICLE—A very attractive, pure white Radish; the earliest of the long white Summer sorts and of most excellent quality. The roots are somewhat shorter, with smaller tops than the long White Vienna and mature a little earlier. One of the most desirable varieties for outdoor Summer planting. It is also adapted for forcing. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

LONG WHITE VIENNA, OR LADY FINGER—An early maturing, attractive, long, white Summer Radish of most excellent quality. Tops medium size. Roots pure white, slender, smooth and averaging about 7 inches long. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

EARLY SCARLET GLOBE—A desirable sort for hotbed forcing and outdoors; very early; flavor mild, crisp, juicy and tender; top small; will stand heat without becoming pithy. One of the best selling and most attractive Radishes, on account of its bright scarlet color and handsome shape. (See Cut.) Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

LARGE WHITE SUMMER—This is one of the best white Radishes for Summer use. Very popular with the market gardeners, because of its beautiful appearance and ready sale and its well-known quality of being slow to run to seed. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

MODEL WHITE BOX—(Short Top)—Of quick growth; roots round pure white, tails very thin, leaves short, flavor excellent. Fine for forcing and open ground. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

EARLY WHITE, OLIVE SHAPED—Olive shaped, terminating in a very slim tape root, tender and excellent in flavor. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 20c. Lb., 50c.

GIANT STUTTGART—A Summer variety. Grows to an immense size. White flesh, very crisp and tender. Of good flavor and a good keeper. Pkt. 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

CHARTER—Very slow going to seed. Crisp and tender. A splendid variety for market gardeners. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

GOLDEN GLOBE—This variety is of quick growth, affording crisp and tender Radishes even in the hottest climate, and is extensively grown in the South. Root uniformly globe shaped, with skin golden yellow in color; about 2 inches long by $2\frac{1}{4}$ inches in diameter when matured. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

Market Gardeners, Institutions or Planters wishing seeds in large quantities are requested to mail us a list of their wants. A letter of inquiry may save you dollars, if you are needing considerable quantities of seed.

WHITE STRASBURG—Even when comparatively small this variety is in good condition for use, and continues crisp until matured, when the roots are 4 to 6 inches long by $1\frac{1}{2}$ to 2 inches in diameter. This is considered one of the best large, white Summer sorts. The roots remain in condition for use much longer than the early varieties. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

WHITE DELICACY—Among the earliest Spring varieties, resembling the White Strasburg, very tender, crisp, smooth and clean. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

WINTER VARIETIES

WHITE CHINESE WINTER, OR CELESTIAL—Roots long, cylindrical, with beautiful white skin and flesh; the whitest and usually the least pungent of the Winter varieties. Flesh compact and crisp. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 20c. Lb., 60c.

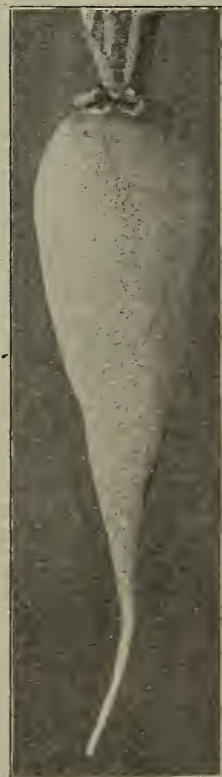
CHINESE ROSE—Roots cylindrical or largest near the bottom, stump rooted, blunt at both ends. Skin smooth, bright deep rose. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

LARGE WHITE SPANISH—Long and tapering, and when full grown measuring 6 to 9 inches long. Skin white, flesh white. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

ROUND BLACK SPANISH—White Strasburg Radish shaped. Skin black, flesh white. Keeps well through the Winter. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

ROUND WHITE SPANISH—A good Winter-keeping variety. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

LONG BLACK SPANISH—One of the latest and hardest long Radishes, especially adapted for Winter use. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.



SPINACH

Special Prices in Quantities

Culture—For Summer use, sow early in Spring, in drills 8 to 10 inches apart, covering the seed 1 inch deep. Soil should be very rich, the richer the better. For early Spring use, sow in August and protect with a light covering of straw.



Victoria

BLOOMSDALE CURLED SAVOY—A very early variety and one of the best to plant for early Spring use. Thick, glossy, dark green leaves, of medium size, pointed, but quite broad and crumpled and blistered. Seed round. A rapid grower, but running to seed quickly in warm weather. Pkt., 5c. ¼ Lb., 25c. Lb., 75c.

LONG STANDING—An improved round seed strain of excellent quality. Will remain in condition much longer than other sorts. Leaves dark green, broad and thick. Pkt., 5c. ¼ Lb., 25c. Lb., 75c.

LONG SEASON—A very dark green, crumpled variety, in general appearance similar to Savoy, but considerably larger and broader in leaf, less crumpled and very much longer standing. Pkt., 5c. ¼ Lb., 25c. Lb., 75c.

VICTORIA—An excellent sort, forming a large, exceedingly thick, very dark green leaf, slightly crumpled in the center. Leaves usually rounded or blunt. Remains in condition long after all the other sorts have gone to seed. Pkt., 5c. ¼ Lb., 25c. Lb., 75c.

PRICKLY WINTER—Plant very large at maturity, with many medium-sized leaves, very vigorous and hardy. Leaves usually rounded at end, quite thick and uniformly dark green. Usually planted in the Fall. Seed prickly. Pkt., 5c. ¼ Lb., 25c. Lb., 75c.

NEW ZEALAND—Unlike true Spinach in type and in that it thrives during hot weather and in any soil, rich or poor. The tender shoots may be cut throughout the Summer. Pkts., 5c and 10c. ¼ Lb., 40c. Lb., \$1.25.

VEGETABLE ROOTS

	Hundred	Thousand
ASPARAGUS —Palmetto	70c	\$5.00
“ Barr's Mammoth.....	75c	5.50
“ Mammoth White.....	75c	5.50
“ Conovier's Colossal.....	70c	5.00
ARTICHOKES —Pk., 75c. Bu., \$2.50.		
HORSE RADISH —Doz., 20c. Per 100, 75c.		
RHUBARB —Each, 15c. Doz., \$1.50.		

AROMATIC, MEDICINAL AND POT HERBS

	Pkts.	Oz.	¼ lb.
Anise	5c	15c	25c
Balm	5c, 10c	30c	...
Borage	5c	10c	...
Basil	5c, 10c	15c	...
Caraway	5c	10c	...
Chervil	5c, 10c	25c	...
Chicory	5c	10c	...
Coriander	5c	10c	25c
Dill	5c	10c	25c
Fennel (Sweet)	5c	10c	25c
Lavender	5c	15c	40c
Rosemary (Aromatic)	5c	35c	50c
Sage	5c	25c	40c
Savory, Summer	5c	10c	40c
Thyme	5c	25c	75c

SALSIFY

Better Known as Oyster Plant

Culture—Seed should be sown in early Spring, in light, rich soil, in drills 14 inches apart, and thin to 6 inches in the row. The roots are perfectly hardy and many remain out all Winter.

MAMMOTH SANDWICH ISLAND—This variety is large and strong, growing with long, smooth, white, tapering roots, and is less liable to branch than the other sorts. Tops grassy. It is invaluable for market gardeners' use. Pkt., 5c. Oz., 15c. ¼ Lb., 50c. Lb., \$1.50.

RHUBARB

Also known as Pie Plant, is the earliest Spring vegetable and is grown for its leaf stalks, which are extensively used for pies and sauce.

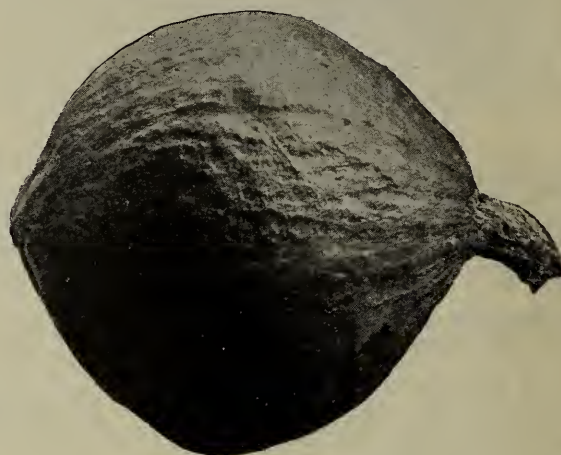
SEED—Pkt., 5c. Oz., 20c. ¼ Lb., 60c.

ROOTS—Each, 15c. Doz., \$1.50.

SQUASH

Culture—One of the most nutritious and valuable of garden vegetables. The Summer varieties come to the table early in the season, while the Fall and Winter sorts can be had from August until the following Spring. The Winter varieties are very well adapted for stock feeding and we heartily recommend them for that purpose.

Squash plants are very tender and sensitive to cold, and so planting must be delayed until settled warm weather. General methods of culture are same as for cucumbers and melons, but Squash is less particular as to soil. Summer varieties should be planted 4 or 6 feet apart each way and winter sorts 8 to 10. Three plants are sufficient for a hill. In gathering the Winter sorts care should be taken not to bruise or break the stem from the Squash, as the slightest injury will increase the liability to decay. Winter Squashes should be stored in a moderately warm, dry place and the temperature kept as even as possible. For those who desire very early Squashes seed can be planted in boxes and transplanted.



Boston Marrow Squash

EARLY WHITE BUSH SCALLOP—This is the well-known very early, somewhat flattened, scalloped Bush Squash of medium size. The color is creamy white with comparatively smooth surface. The vines are vigorous and very productive. This variety is also known as Patty Pan, or Cymling. Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 60c.

EARLY YELLOW BUSH SCALLOP—An early, flat, scallop-shaped variety. color, yellow. Flesh, pale yellow and of very good flavor. Pkt., 5c. Oz., 10c. ¼ Lb., 15c. Lb., 50c.

SUMMER CROOKNECK—An old standard sort, early and productive. Fruits when fully grown are about 1 foot long, with uniformly crooked neck and surface densely warted. Color, yellow. Pkt., 5c. Oz., 10c. ¼ Lb., 15c. Lb., 50c.

BOSTON MARROW—A very productive Fall and Winter variety of medium to large size, oval shape, skin thin. Orange color, flesh fine grained and of excellent flavor. Pkt., 5c. Oz., 15c. ¼ Lb., 20c. Lb., 60c.

HUBBARD—One of the best of the Winter Squashes. Vines vigorous and very productive. Fruit heavy, moderately warted, with very hard shell. Skin a dark bronze-green. Flesh a bright orange-yellow, fine grained, thick, dry and richly flavored. Pkt., 5c. Oz., 10c. ¼ Lb., 15c. Lb., 50c.

MAMMOTH CHILI—The outer skin of this great squash is a rich orange yellow. The flesh is yellow and very thick, and the quality is good and nutritious. It is of the highest value as a stock food, far exceeding ordinary pumpkins in this respect, and answering as well as root crops. It is a prolific variety, and a good winter keeper. Has reached the great weight of 292 pounds. It is a typical sort to grow for exhibition at the fairs. Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 60c.

TOMATO

Culture—Tomatoes do best on light, warm, not overrich soil, and success depends upon largely securing a rapid vigorous and unchecked growth during the early part of the season. Sow in hotbeds from 6 to 8 weeks before they can be set out of doors, which is when danger from frost is past. When the plants have 4 leaves transplant into shallow boxes or cold frames, setting them 4 to 5 inches apart. Give plenty of air and endeavor to secure a vigorous but steady and healthy growth, so that at the time of setting in the open ground they will be strong and stocky. Even a slight check while the plants are small will materially diminish their productiveness. Set out of doors as soon as danger from frost is over, but before doing so harden off the plants by gradually exposing them to the night air and by the withdrawal of water until the wood becomes hard and the leaves thick and of a dark green color. Transplant carefully and cultivate well as long as the vines will permit.

KELLY'S RED TOMATO

This wonderful Red Tomato originated in Anne Arundel County, Maryland, a few years ago, and because of its good qualities has grown into favor with all who have tried it. The seed stock of this variety has been very scarce for the past few years, and we were able to secure only a limited quantity last season, but those who were lucky enough to obtain it cannot praise it too highly.

There are nine good reasons why every trucker or grower of Tomatoes should plant this most excellent sort. First, it is the most solid tomato grown. Second, its uniformity in size, being a good size, and not too large for canning. Third, its good shipping qualities, remaining hard and firm in transit. Fourth, its meatiness, being good and solid all the way through. Fifth, its weight, which is due to its firmness and solidity. Sixth, its beautiful red color, which attracts the attention of the buyer and therefore finds ready sale. Seventh, it ripens right up to the stem and has no ridges. Eighth, it never cracks, except when overripe. Ninth, its productiveness, producing from 300 to 600 bushels per acre.

We wish to state that owing to the scarcity of the true and genuine stock seed, some other variety has oftentimes been substituted for the Kelly Red. We are growing this seed under our own careful supervision and in order to protect the customer from imitations or substitutes it will only be sold in sealed packages.

If You Would Double the Yield of Your Tomato Crop, Plant the Kelly's Red

Sold only in sealed packages, as follows: Pkts., 5c and 10c. Oz., 40c. $\frac{1}{4}$ Lb., \$1.50. $\frac{1}{2}$ Lb., \$2.50. Lb., \$5.00.

PRaised BY ALL WHO SAW IT.

Wiseman, Downs & Co.,

Gentlemen: I would like to say a word in praise of the "Wisdom" tomato which you are introducing. I planted some of the seeds last year and they yielded better than any tomato grown on my farm in late years. The tomato was uniform in size and the vine healthy and free from blight. The field which I planted last year was much admired and praised by all who saw it.

Yours very truly,

H. C. WIGLEY.

PRODUCED MORE THAN ANY.

Wiseman-Downs Co.

Dear Sirs: The Wisdom Tomato which I planted last season produced more tomatoes per acre than any variety I have ever planted in my fifteen years' experience. For packers, shippers or market gardeners it is unexcelled.

Yours truly,

ELMER H. STANSBURY.

Sparrows Point.

BROUGHT 15c to 25c MORE

Sparrows Point, Md., January 14, 1916.

Messrs. Wiseman, Downs Co.,

Gentlemen: I bought of you last season a quarter pound of tomato seed, which you said was one that was being tried out by some of the truckers, and which you recommended to me as being the best. I want to say that it is all you claimed for it and more. The canner to whom I hauled my tomatoes said "they were the best he had packed during the season." As a shipping tomato they cannot be beaten. At the wholesale market I received from 15 to 25c. more per basket than any other variety I had. Will want two pounds this season, as I want to plant my whole crop of that variety. As you did not have any name for it last year, make sure you send me the same variety.

Yours truly,

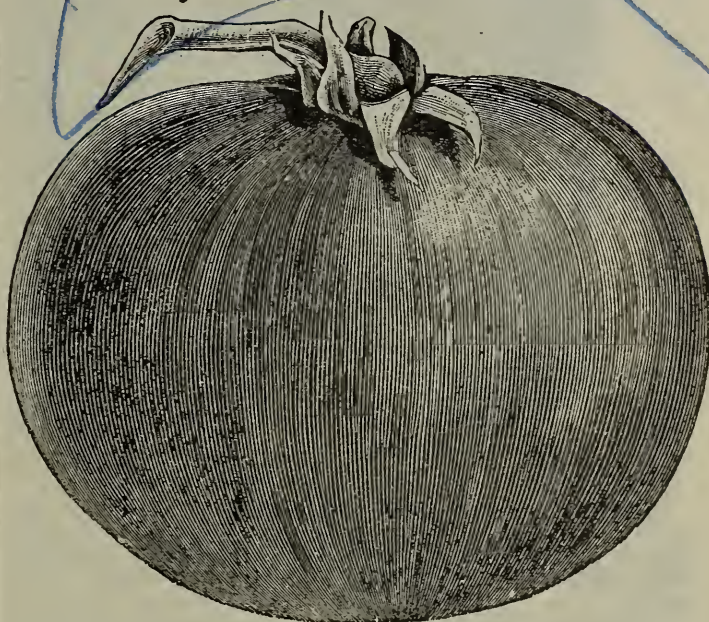
ANDREW WEST.

Note—We have since named it The "Wisdom."

We make a specialty of growing tomato seed. We mean ACTUAL GROWING. Some who claim to be extensive growers in this line, we find, raise a large portion of their output at the back door of some canning factory; simply saving the seed from the refuse. Such seed may be a mixture of a half dozen or more varieties. We grow our tomatoes only for seed. We select our seed from the choicest tomatoes which are most perfect in form and truest to type, and which mature the earliest. Our tomato seed is recognized by our competitors as being as good as any grown anywhere.

All Prices Subject To Change Without Notice

THE "WISDOM" TOMATO Introduced, Grown and Sold Exclusively by Wiseman-Downs Co.



From a very small quantity of seed which we obtained five years ago, and after careful nursing and experimenting we have developed the best medium early tomato ever introduced on this market. It is absolutely the very best for truckers, market gardeners and growers generally. It will readily sell and command a higher price from shippers, packers and retail markets as well. Before introducing it to the trade generally, we have tested it out under all climatic and soil conditions during the past several years. Notwithstanding the fact that last season was a poor one for the growing of tomatoes; the few truckers that were lucky enough to obtain any of this seed, said: "Their crops were excellent and the last tomatoes picked were as good as the first." We have on file a number of unsolicited testimonials of which, owing to limited space, we publish a few. We have long realized the demand for a medium, early tomato that would meet the requirements of both the packer and shipper and at the same time prove most profitable to the trucker and market gardener as well. In this we are sure that in the development of this wonderful tomato we have met with success. Our Mr. J. W. Downs, who for years had been a successful trucker in Anne Arundel Co., Md., under whose personal supervision this seed has been grown, says: "It is the best he has ever seen." Tomatoes were his specialty. The large number of unsolicited orders, which we have on file now, January 1, 1916, coming from truckers who saw this tomato growing during the past season, proves without a shadow of doubt that it is all that has been claimed for it. To those wanting a perfectly smooth, deep red, medium early and uniform tomato, we can highly recommend this sort. Just the right size and shape for packing, free from blight, heavy foliage which protects the fruit from the hot sun rays, thus preventing sunscald. Thick skin which makes it the very best for shipping long distances. Entirely free from core. Makes a splendid appearance when arranged on the market stall, as every one is perfectly uniform. Positively no culls. Ripens evenly to the stem. Will not crack or rot from too much rain as is the case with some of the other sorts. Very thick meat and makes a splendid slicing tomato for the table. We would suggest that if only a small packet, try it and you will not be disappointed in the crop. To prevent mistakes and imitation we will only sell this in sealed packages at the following prices: Pkt., 25c. Oz., 50c. $\frac{1}{4}$ Lb., \$2.00. Lb., \$8.00.

CAUTION—See that it bears our label.

TOMATO—Continued



Spark's Earlianna

Pkts., 5c and 10c. Oz., 25c. ¼ Lb., \$1.00. Lb., \$3.50.

SPARK'S EARLIANNA—The earliest of all Tomatoes. Especially valuable for this reason, being 10 days to 2 weeks earlier than any other sort. A bright red color; solid and very prolific. Pkts., 5c and 10c. Oz., 30c. ¼ Lb., \$1.00. Lb., \$3.50.

CHALK'S EARLY JEWEL—Very large, smooth, red, and especially fine flavored variety. Within 10 days as early as Earlianna. Very prolific. Pkts., 5c and 10c. Oz., 30c. ¼ Lb., \$1.00. Lb., \$3.50.

EARLY ACME—Fine for early market use. Well known and generally cultivated, both for early and main crops. Plants are of strong and vigorous growth, very productive, the fruit of medium size, perfect form, round, slightly depressed at the ends and very smooth (never rough), color a glossy red with purplish tinge; ripens all over and through at the same time. Our seed is extra select. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 50c. Lb., \$1.50.

CRIMSON CUSHION—Our Beefsteak Tomato, is very large, round and regular; bright scarlet skin, flesh solid best quality, seed cells small and few. Plants are very prolific, fine appearance, good shipper. Pkts., 5c and 10c. Oz., 20c. ¼ Lb., 60c. Lb., \$2.00.

ENORMOUS—Very large, beautifully smooth, solid flesh, few seeds; rather oval shape, mid-season, ripens all through the fruit at once. Vines are not so productive as Matchless, but fruit is large. Pkts., 5c and 10c. Oz., 20c. ¼ Lb., 60c. Lb., \$2.00.

IMPROVED PONDEROSA—This variety as grown by us is quite smooth, of immense size, very solid and luscious. For family gardens it is deserving of universal use. Unsurpassed in size and of fine quality for slicing. The vines are of strong growth. The deep purple fruits are oblong in form, and very fleshy, with small seed-cells; of extra sweet flavor. We offer a selected strain of our own growing that produces tomatoes smoother than usual and very meaty. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 50c. Lb., \$1.50.

OTHER STANDARD SORTS

Per Pkt. 5c of any of the following:

	Oz.	¼ Lb.	Lb.
Atlantic Prize. Early Red.....	.20	.60	\$2.00
Buckeye State. Late purple.....	.20	.75	2.60
Early Freedom. Very early.....	.20	.75	2.50
Favorite. Early, smooth, red good shipper..	.20	.60	2.00
Golden Queen. Rich yellow.....	.25	.75	2.50
Honor Bright. Best shipper; good quality..	.20	.60	2.00
Imperial. Early purple.....	.20	.60	2.00
Perfection. Solid flesh; blood red; late; a favorite .....	.20	.60	2.00
Trophy. Old standard; late.....	.20	.60	2.00

BONNIE BEST—Of recent introduction. Has proved to be, as its name signifies, the best early Tomato grown. About 10 days earlier than Chalk's Jewel, and nearly as early as Earlianna. It is a strong, vigorous grower, very prolific, heavy foliage, which acts as a protection from the hot sun. The fruit is round, red, with a delicious flavor, very uniform in size and shape. Does not have the green surface like the Earlianna. Pkts., 5c and 10c. Oz., 40c. ¼ Lb., \$1.00. Lb., \$3.50.

EXTRA EARLY RUBY—This new variety has taken its place with the extra early varieties, maturing a week later than Earlianna and far superior in quality; color, ruby red; globe shaped, solid and an excellent flavor. Very prolific.

KING OF THE EARLIEST—One of the largest extra early Red Tomatoes in cultivation, which well deserves its name. Pkts., 5c and 10c. Oz., 30c. ¼ Lb., \$1.00. Lb., \$3.50.

EARLY I. X. L.—Very early and very prolific. Fruit large and of a bright red color. Firm and solid. Fine flavor. A favorite with the truckers. Pkts., 5c and 10c. Oz., 30c. ¼ Lb., \$1.00. Lb., \$3.50.

ATLANTIC PRIZE—A splendid cropper. Large, red, and, while not as smooth as Paragon, it ripens very evenly. Pkts., 5c and 10c. Oz., 30c. ¼ Lb., 75c. Lb., \$2.50.

BEAUTY—A standard sort for early market and shipping. Firm and tough. Thick meat of a fine flavor. A splendid shipping sort. Color, rich crimson, tinged with purple. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 50c. Lb., \$1.50.

DWARF CHAMPION—A fine variety, rather bushy and upright in growth. Smooth; purple fruit. Pkts., 5c and 10c. Oz., 20c. ¼ Lb., 60c. Lb., \$2.00.

MATCHLESS—The color is rich, bright red and is of fine quality, although possibly not as firm as the Stone. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 50c. Lb., \$1.50.

NEW STONE—One of the largest and most solid, late, bright red varieties. Vine large, vigorous and very productive. Fruits deep scarlet, nearly round or slightly flat. Smooth and uniform in size. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 40c. Lb., \$1.25.

MY MARYLAND—A good, medium, early sort and a heavy bearer. Excellent for truckers and market gardeners generally. A good packing variety. Pkts., 5c and 10c. Oz., 25c. ¼ Lb., 75c. Lb., \$2.50.

BRINTON'S BEST, OR B. B.—An excellent sort for canning and shipping; smooth, red and of fine flavor. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 50c. Lb., \$1.50.

RED ROCK—One of the finest for canning, being very solid, smooth and red. Of fine flavor, very meaty and wonderfully free from acid. A heavy producer and good shipper. Pkts., 5c and 10c. Oz., 30c. ¼ Lb., \$1.00. Lb., \$3.50.

GREATER BALTIMORE—Brilliant red color. Vines sturdy and vigorous. Very solid and firm. A good shipper. Pkts., 5c and 10c. Oz., 25c. ¼ Lb., \$1.00. Lb., \$3.50.

LIVINGSTONE FAVORITE—Bright red, smooth Tomato, of good size. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 40c. Lb., \$1.25.

PARAGON—Bright red, firm and smooth. So well known it needs no further description. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 40c. Lb., \$1.25.

NEW QUEEN—This sort is well known among canners. Resembling somewhat the Paragon. Pkts., 5c and 10c. Oz., 15c. ¼ Lb., 50c. Lb., \$1.50.

SMALL FRUITED VARIETIES

PEAR-SHAPED YELLOW—Used for preserving and pickles. Pkts., 5c and 10c. Oz., 25c. ¼ Lb., 75c.

YELLOW PLUM—Color, bright yellow; excellent for preserving. Pkt., 5c. Oz., 25c. ¼ Lb., 75c.

PEAR-SHAPED RED—Pkts, 5c and 10c. Oz., 25c. ¼ Lb., 75c.

FROST PROOF CABBAGE PLANTS

Varieties: Early Jersey Wakefield, Charleston Wakefield, Succession and Early Flat Dutch.

These plants are grown in the open field during the fall and winter months, which causes them to make a slow, tough, hardy growth—so hardy that the outer leaves turn to a reddish brown. They can be shipped to distant points without danger of spoiling, and should be planted in the open ground from four to five weeks earlier than frame plants.

They will stand a temperature of 10 to 15 degrees above zero without injury. Will do very much better planted early, as they will take root and start to grow as soon as warm weather sets in.

Orders filled from January 1 until April 1. We do not advise planting later than this time.

Price by mail, postpaid, 35c per 100. By express, buyer paying express charges:

500 for \$1.00.
1000 to 4000 at \$1.50 per M.
5000 to 8000 at \$1.25 per M.
In lots of 10,000 and over, \$1.00 per M.

All F. O. B. growing station. Terms—Cash with order, please. None of above sold C. O. D.

Market Gardeners, Institutions or Planters wishing seeds in large quantities are requested to mail us a list of their wants. A letter of inquiry may save you dollars, if you are needing considerable quantities of seed.

TURNIP

Culture—For Summer use sow early in Spring in light, rich soil, in drills $1\frac{1}{2}$ feet apart, according to the size of the variety, and cover $\frac{1}{2}$ inch deep, or sow broadcast, but in either case be sure to have the ground rich and freshly stirred. Thin early and keep free from weeds, so that the young plants will not be checked in growth. For Fall and Winter use sow the seed from middle of June to the first of August and in the manner given for Spring sowing. In the field, Turnips are often sown broadcast at the rate of $1\frac{1}{2}$ pounds to the acre.

PURPLE TOP WHITE GLOBE—This excellent table variety is globular in shape, of good size and very attractive in appearance. The roots are large, purple or dark red above ground white below. The flesh is fine grained and tender. This sort keeps well for so early a variety and is one of the best for market use. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 20c. Lb., 75c.

EXTRA EARLY PURPLE TOP MILAN—Very early, fine grained white flesh. Flat and of good size. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 20c. Lb., 75c.

PURPLE TOP WHITE FLAT—This sort is very much similar to the Purple Top White Globe in habit of growth, except it is flat rather than globular. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 20c. Lb., 60c.

WHITE FLAT—Differs from Purple Top only in color. Fine grained and of good quality. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 20c. Lb., 60c.

COW HORN, OR LONG WHITE—This variety is clear white except a little shade of green at the top of the root, which is long and carrotlike in form, slightly crooked and grows nearly half out of the ground. The flesh is fine grained and well flavored, and for table use is in best condition when the roots are about 2 inches in diameter. Pkt., 5c. $\frac{1}{4}$ Lb., 20c. Lb., 60c.

YELLOW OR AMBER GLOBE—Very large, yellow fleshed, fine grained variety. Excellent for table use or feeding stock. Pkt., 5c. $\frac{1}{4}$ Lb., 20c. Lb., 60c.

SEVEN TOP—Cultivated extensively for the tops, which are used for greens. In many sections it is a favorite feed for stock. Pkt., 5c. $\frac{1}{4}$ Lb., 15c. Lb., 30c.

SOUTHERN PRIZE—Very extensively grown in the South for greens. The plants furnish an abundance of tops. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 20c. Lb., 60c.

YELLOW ABERDEEN—Very hardy and productive, a good keeper; globe shaped. Color pale yellow, with purple top. Very firm in texture, and closely resembling the Rutabaga in good keeping qualities. Good either for table or stock. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 20c. Lb., 60c.



Purple Top Ruta-Baga

EARLY WHITE EGG

An early, oval or egg shaped variety, with smooth, clear white roots of medium size, which grow half out of the ground. The flesh is clear white, firm, fine grained and sweet. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. Lb., 50c.

Market Gardeners, Institutions or Planters wishing seeds in large quantities are requested to mail us a list of their wants. A letter of inquiry may save you dollars, if you are needing considerable quantities of seed.

RUTA-BAGAS, OR SWEDES

AMERICAN IMPROVED PURPLE TOP—Yellow fleshed. An improvement over the ordinary Purple Top in that it has a smaller and much shorter top. Splendid for family use or feeding stock. Pkt., 5c. $\frac{1}{4}$ Lb., 20c. Lb., 75c.

WHITE ROCK—An excellent keeper and very desirable for the table or for stock. Pkt., 5c. $\frac{1}{4}$ Lb., 20c. Lb., 75c.

SEED POTATOES NORTHERN GROWN

Culture—Potatoes thrive better on light sandy soil, yet, under favorable conditions, a good crop may be obtained on heavier soil. If stable manure is to be used, see that it is well rotted and not allowed to come in contact with the tuber. Make rows three feet apart and plant about 8 or 10 inches apart in the rows. Cover seed about 4 inches if ground is warm and dry; if cold and wet, cover 3 inches. Cultivate frequently to keep down the weeds. As the vines increase draw the earth around them, forming a slight ridge. When the bugs appear dust with Paris Green. Plant from 8 to 10 bushels to the acre.



BEAUTY OF HEBRON

EARLY OHIO—Very early and productive, shape oblong; fine quality, being dry and mealy. A splendid keeper. Pk., 90c. Bu., \$3.25. Bbl., \$8.00.

BLISS TRIUMPH—One of the very early sorts. Very productive, handsome color; a favorite with the potato grower. Pk., 90c. Bu., \$3.25. Bbl., \$8.00.

BEAUTY OF HEBRON—Vine vigorous and a rapid grower. Early and very prolific. Resembles somewhat the Early Rose, but is more productive. An excellent potato for the table, either boiled or baked. Pk., 90c. Bu., \$3.25. Bbl. sack, \$8.00.

IRISH COBBLER—One of the most popular sorts on the market. A favorite with the trucker. Very productive, matures early; shape chunky, almost round; very strong and deeply set, skin netted, flesh white. Pk., 90c. Bu., \$3.25. Bbl., \$8.00.

EARLY NORTHER—Resembles the Early Rose in shape and color, matures a few days earlier and is a favorite with those who have tried it. Pk., 90c. Bu., \$3.25. Bbl., \$8.00.

CROWN JEWEL—Very early and prolific; skin pinkish white. One of the best for early market. Planted extensively in this section and also the South. Pk., 90c. Bu., \$3.25. Bbl., \$8.00.

NEW YORK EARLY ROSE—A leading variety for earliness, quality and productiveness. Pk., 90c. Bu., \$3.25. Bbl., \$8.00.

WHITE BLISS—Round white; identical with the Red Bliss, only difference in color. Pk., 90c. Bu., \$3.25. Bbl., \$8.00.

EARLY BOVEE—Early, good size, prolific, very smooth and uniform in size; flesh white; cooks dry and mealy. Pk., 90c. Bu., \$3.25. Bbl., \$8.00.

MAINE, OR HOULTON EARLY ROSE—An old standard variety, so well known that it needs no description. Our stock of this variety is the very best. Pk., 90c. Bu., \$3.25. Bbl., \$8.00.

EARLY PURITAN—A splendid early variety. White and fine, very prolific. Pk., 90c. Bu., \$3.25. Bbl., \$8.00.

EARLY HARVEST—A new variety. Early, prolific and uniform in size; nearly white. Pk., 90c. Bu., \$3.25. Bbl., \$8.00.

PROSPERITY—An extra large cropper; medium early; flesh white; cooks white and mealy. Pk., 90c. Bu., \$3.25. Bbl., \$8.00.

MAGGIE MURPHY—Very productive, oblong, somewhat flattened. Pk., 90c. Bu., \$3.25. Bbl., \$8.00.

MCCORMICK—A very late and heavy cropper. One of the best for Winter Keeping. Pk., 80c. Bu., \$3.00. Bbl., \$7.00.

RURAL NEW YORKER—A valuable variety of large size, very smooth and a great cropper; in quality unexcelled. This variety is yearly becoming more popular as the best late, long keeper, and we recommend it highly. Pk., 80c. Bu., \$3.00. Bbl., \$7.00.

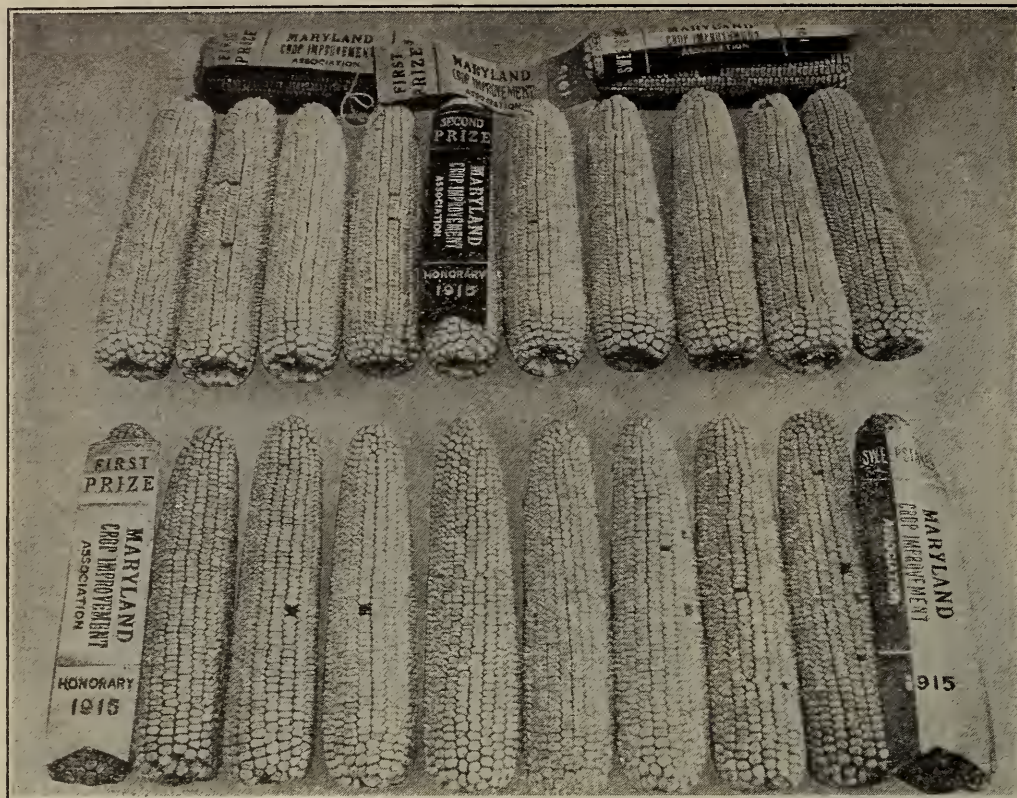
BURBANK—An old and well-known sort. Oblong, white skin and flesh. A very heavy yielder and a splendid potato for cooking. Late and a good keeper. Pk., 80c. Bu., \$3.00. Bbl., \$7.00.

GREEN MOUNTAIN—A splendid late crop variety; an excellent keeper; very prolific. Pk., 80c. Bu., \$3.00. Bbl., \$7.00.



IRISH COBBLER

All Prices Subject to Market Changes.



Boone County White and Funck's Yellow Dent.

"HICKORY KING" WHITE CORN—So large are the grains and so small the cob that on an ear broken in half a single grain will almost cover the cob section. Of a strong growth, the stalks take a firm hold in the ground and stand upright, resisting severe storms. It yields splendid crops on light soils, and is undoubtedly the best and most productive White Field Corn for the South. Pk., 75c. Bu., \$2.50.

CUBAN GIANT ENSILAGE CORN—Grains are pure white, very large, broad and long. Of stronger vitality than any other variety. It is the best milk producer of all ensilage Corns, being as sweet as Sugar Corn. Outyields the Red Cob Ensilage and is 10 to 12 days earlier. Pk., 75c. Bu., \$2.50.

BLOUNTS PROLIFIC—A very prolific, flinty white sort. Produces from 3 to 5 ears to a stalk; makes excellent meal. Qt., 15c. Pk., 75c. Bu., \$2.75.

NINETY-DAY RED COB—Can be used either as a roasting ear or, when fully matured, makes an excellent Corn for feeding stock. Matures in about 90 days. Qt., 15c. Pk., 75c. Bu., \$2.50.

WHITE KAFFIR CORN—This variety belongs to the Sugar Cane family and has great drought-resisting qualities. The grain is used for feeding poultry and the fodder for cattle. It is ideal for planting where the Corn seed has failed to germinate and it is too late to replant. Grows from 4 to 6 feet high, the grain being produced on the top of a stalk in the shape of a brush. Plant at the rate of 10 pounds to the acre, in drills. Lb., 10c. 25 lbs., \$1.25. Bus., 56 lbs., \$2.50.

EVERGREEN BROOM CORN—The chief value of this plant lies in the top, or brush, as it may be called, which is used in making brooms. The stalk is used for bedding and grows to a height of about 9 feet. Sow in May, about 10 pounds to the acre, in drills 3 feet apart.

MARYLAND WHITE CORN—Very popular with the farmer, as it is a standard variety, and very well known. Large pure white grain, small cob, good sized ear. Qt., 15c. Pk., 60c. Bu., \$2.25.

MAMMOTH YELLOW DENT—A standard variety of Yellow Dent Corn. Slender grains of a beautiful golden yellow. The kernels grow very close together. Small cob, good yield. Qt., 15c. Pk., \$1.00. Bu., \$3.50.

GOLDEN BEAUTY—Very large, broad grains, arranged very evenly on gigantic cobs. The fodder is enormous, often growing 12 feet high; matures late, but yields wonderful crops. Desirable for silo and ensilage purposes. Qt., 15c. Pk., 75c. Bu., \$2.25.

EARLY LEAMING—Its extreme earliness has made it a favorite with the farmer and especially with those in the localities where the seasons are short. Ears and grains are of medium size. Qt., 15c. Pk., 75c. Bu., \$2.25.

SUDAN GRASS

ONE OF THE MOST REMARKABLE NEW FORAGE CROPS GROWN.

SUDAN is thought to be the original form of the cultivated sorghum. It was brought to the United States by the U. S. Department of Agriculture in 1909. It was tried out in Texas, where the Department of Agriculture and the

FIELD CORN

This shows the ten ears white, ten ears yellow and single ear white, and single ear yellow that were exhibited at Fifth Regiment Armory, November 16th to 20th, 1915.

Boone Co. White is a medium late corn, requiring about 110-120 days to mature the grain, grows a large, heavy, well-bladed fodder, and is an excellent corn both for the crib or silo.

The ears are from 9 to 12 inches long and well proportioned, running about 20 and 22 rows of deep grain, on a medium pure white cob, with deep, well-filled, medium shank allowing ear to droop as it matures and excluding the moisture. The tips are also well-filled, often completely covered. The kernels are of the dent variety, moderately rough, very deep and wedge-shaped, and form straight compact rows. It will produce 20-25 tons ensilage per acre, and the cured fodder makes excellent dry provender. It has given me a field average of 18-20 bbl. per acre for years.

Pk., \$1.00. Bu., \$3.50.

Texas State Experiment Station conduct jointly forage crop work. It is a tall annual grass, and ranges in height from 4 to 8 feet. The stems are small and somewhat more leafy than Johnson Grass, which it most nearly resembles, though it is entirely different from Johnson Grass. Like the sorghum crop, it must be planted each spring and dies when the first frost comes. It usually matures 90 days from planting. Its feeding value marks it easily as one of the dependable crops for the farm. Stock of all kinds will eat it readily. It requires 2 lbs. of seed per acre, sown in drills. Lb., 30c. 10 lbs., \$2.50.

CLOVER SEEDS

ALSIKE, OR SWEDISH—(*Trifolium Hybridum*)—The most hardy of all clovers; perennial. On rich, moist soil it yields an enormous quantity of hay or pasturage, but its greatest value is for sowing with other clovers and grasses, as it forms a thick bottom and greatly increases the yield of hay. Sow the seed in Spring or Fall, at the rate of 10 to 15 pounds per acre when sown alone. Lb., 25c. Write for prices in larger quantities.

ALFALFA, OR LUCERNE—(*Medicago Sativa*)—The most valuable forage crop on the farm today. It is sown during May, August and September, these being the best months for success, although it can be sown at other times with a possible chance of doing well. It should not be planted on land having a stiff clay or hard pan subsoil, as the roots naturally penetrate to a great depth, and must do so if the plants live any time. Sow on rich, moist loam or sandy soil having a deep porous subsoil. Prepare the land thoroughly and sow seed at the rate of 15 to 25 pounds per acre. The young plants are very tender and should be kept free from weeds. The seed we offer is grown on Montana high land and seems to do better than that grown on low or irrigated land. Lb., 25c. Write for prices in larger quantities.

RECLEANED RED—(*Trifolium Pratense*)—This is by far the most important of all the varieties for practical purposes. Sow in Spring or Fall and, if no other grasses are used, at the rate of 15 pounds per acre. Lb., 24c. Write for prices in larger quantities.

WHITE DUTCH—(*Trifolium Repens*)—A small creeping perennial variety, valuable for pasturage and for lawns. It accommodates itself to a variety of soils, but prefers moist ground. ¼ Lb., 20c. Lb., 60c.

HIGH GRADE FARM SEEDS

BUCKWHEAT, JAPANESE—The plants are large and vigorous, maturing seed early and resisting drought and blight remarkably well. The grain is much larger and has a thinner hull than the common, or the Silver Hull. We recommend this especially for well-drained or sandy land. Sow about June 15th, at the rate of ½ bushel to the acre. Pk., 40c. Bu., \$1.50.

BEARDLESS SPRING BARLEY—There is a three-fold purpose in growing barley. Its straw is good for green feed, or when cured, as hay. The grain in the hull is excellent poultry feed, and when the latter is removed is used in the household. Sow broadcast 1½ bushels to the acre, from May 15th to July 1st. Pk., 40c. Bu., \$1.50.

All Prices Subject To Change Without Notice

GRASS SEEDS



Red Top or Herds Grass

SHEEP FESCUE—(*Festuca Ovina*)—A small, tufted, hardy Grass, forming a cluster of narrow, cylindrical leaves. It is of value in mixture for lawns on dry soils and in shady locations. Sow about 35 pounds per acre. Lb., 40c.

Write for Prices in Larger Quantities.

RHODE ISLAND BENT GRASS—(*Agrostis Canina*)—A valuable perennial for lawns and pasturage. Much like Red Top, only smaller. Thrives on light, dry soils as well as on rich, moist ones. Lb., 50c.

Write for Prices in Larger Quantities.

WOOD MEADOW GRASS—(*Poa Nemoralis*)—Grows from 1½ to 2 feet high; has a perennial creeping root and an erect slender, smooth stem. Well adapted to shaded places, such as orchards and parks, for either hay or pasturage. Sow about 30 pounds per acre. Lb., 60c.

Write for Prices in Larger Quantities.

TIMOTHY—(*Phleum Pratense*)—The most valuable of all the grasses for hay; thrives best on moist loamy soils of medium tenacity. It should be cut just when the blossom falls. Sow early in the Spring, or Fall, at the rate of 15 pounds per acre if alone, but less if with other grasses. Lb., 10c. Write for prices in larger quantities.

KENTUCKY BLUE GRASS—(*Poa Pratensis*)—It is the most nutritious hardy and valuable of all northern grasses. Sown with white clover it forms a splendid lawn. If sown by itself for meadow or pasture, use about 28 pounds per acre. Lb., 20c. Write for prices in larger quantities.

ORCHARD GRASS—(*Dactylus Glomerata*)—Desirable for its quick growth and valuable aftermath. It is ready for grazing 2 weeks earlier than any other grasses, and when fed off is again ready for grazing in a week, and will continue green after all other grasses are withered by dry weather. It is palatable and nutritious, and stock eat it greedily when green. If sown alone, about 28 pounds per acre are required. Lb., 20c. Write for prices in larger quantities.

AWNLESS BROME GRASS—(*Bromus Inermis*)—A perennial, valuable for binding the soil of embankments and for resisting both drouth and cold. Sow 40 pounds per acre. Lb., 40c. Write for prices

PERENNIAL RYE GRASS—(*Lolium Perenne*)—A very valuable variety for permanent pasture. Succeeds well on almost any soil, but is particularly adapted to moderately moist or irrigated lands. Sow 30 to 40 pounds per acre, in Spring. Lb., 30c. Write for prices in larger quantities.

RED TOP—(*Agrostis Vulgaris*)—In Pennsylvania and states farther south this is known as Herds Grass. It is a good, permanent grass, standing our climate well, and makes good pasture when fed close; is valuable for low, wet meadows, producing a large return in hay. When sown alone, use about 28 pounds of the chaff seed per acre. Sow in Spring or Fall. Write for prices.

RED TOP FANCY—(Cleaned From Chaff)—Sow 8 to 10 pounds per acre. Lb., 25c. Write for prices.

RED TOP UNHULLED—(Free From Light Chaff)—Lb., 10c. Write for prices in larger quantities.

CREeping BENT GRASS—(*Agrostis Stolonifera*)—Particularly valuable for lawns that are to be used as croquet and tennis grounds. Makes a low, velvety growth. Lb., 40c.

Write for Prices in Larger Quantities.

MEADOW FESCUE, OR ENGLISH BLUE GRASS—(*Festuca Pratensis*)—A perennial from 2 to 4 feet high, with flat, broad leaves. One of the standard European Grasses. It succeeds well on nearly all soils, but does best on upland, loamy or moderately stiff soils. An excellent pasture Grass to take the place of the wild Grasses, as it yields a large amount of early and late feed. Sow about 40 pounds per acre. Lb., 45c.

Write for Prices in Larger Quantities.

TALL MEADOW OAT GRASS—(*Avena Elatior*)—A hardy perennial, much used in the South and West. Roots penetrate deep. It yields a heavy crop on any good soil, and is valuable both for meadow and pasture. Lb., 40c.

Write for Prices in Larger Quantities.

WISEMAN-DOWNS CO.'S "WISDOM" EVERGREEN LAWN GRASS



Preparation and Care of Lawns

The essentials for a fine lawn are: First, a well-drained soil; second, careful preparation of the ground, making it as fine and smooth and mellow as possible; third, a wise selection of seeds; fourth, sowing at such a time as to give the young plants a chance to become well established before being subjected to very dry or cold weather or to the direct rays of the hot Summer sun. However, much care is bestowed on the soil and seed, no lawn will be beautiful without frequent mowing and rolling. Too much care cannot be bestowed upon the selection of Grasses, as some varieties are the most luxuriant in Spring, others in Summer, others in Autumn, and a combination of the proper sorts is required for a perfect carpetlike lawn. It may be planted early in Spring or Fall and should be sown at the rate of 60 to 100 pounds per acre; much more is required than for hay or pasturage. If sown in the spring, sow as early as possible, making the surface very fine and smooth, then raking it over and sowing the seed just before a rain, which, if the surface has just been raked, will cover the seed sufficiently. If the expected rain does not come, cover by rolling with a light roller. For Fall seeding, sow before the Autumn rains and early enough to enable the young Grass to become well established before very cold weather, when a light dressing of manure should be given.

"WISDOM" EVERGREEN LAWN GRASS—Our "Wisdom" Evergreen Lawn Grass is prepared with the utmost care. Nothing but the very best and choicest seeds are allowed to enter into it, and only those which are best suited for lawns. We feel that we are offering a thoroughly first-class mixture, made of the best and cleanest grades of those varieties used and best adapted to general lawn purposes, and should not be confounded with the cheap chaffy grasses offered at a lower price. Pt., 10c. Qt., 20c. Lb., 30c. 2 Qts., 35c. 4 Qts., 65c. Pk., \$1.25. Bu. 20 lbs., \$4.00.

PARK LAWN GRASS—For those desiring a cheaper grade of Lawn Grass, this will be found a very excellent mixture, though, of course, it does not contain all the High-Grade Seeds which are used in the "Wisdom" Grass. ½ Lb., 10c. Lb., 20c. 5 Lbs., \$1.00.

TERRACE SOD MIXTURE—Qt., 35c. Pk., \$1.75. Bu., 20 lbs., \$5.50.

SHADY NOOK LAWN GRASS—Qt., 40c. Pk., \$1.50. Bu., 20 lbs., \$5.50.

All Prices on Grass Seeds Subject to Market Changes

MISCELLANEOUS FARM SEEDS

We exercise the same care in the selection of stocks in all lines of Farm Seeds as we do the critical vegetable and flower seed part of the business, and to this fact we attribute our success in this particular line of goods during the past season.

DWARF ESSEX RAPE—This makes an indispensable green food for sheep and hogs. It can be pastured eight weeks after sowing. The growth is enormous. If one has the available land it is good to sow in succession, as the stock eat it close to the ground and it will not stand pasturing any great length of time. This, of course, depends upon the number of head turned on an acre. Sow 6 pounds per acre broadcast from April 1st to October 1st. It produces enormous crops and is an ideal green manure. Lb., 10c. 10 Lbs., 80c. 100 Lbs., \$7.00.

VETCHES OR TARES—This has been used in Europe for many years as a stock food and green manuring or cover crop. It does best if sown with rye, the latter giving it support and thus insuring enormous crops. It makes an ideal hay, and it is a pity that every American farmer does not use it. It fertilizes the ground without further trouble or cost, on account of the free nitrogen it gathers from the air. It produces a peculiar vine plant, with very narrow foliage and elongated flowers of pinkish-white, in clusters.

WINTER, OR HAIRY VETCHES (*Vicia Villiosa*)—Sow from August 1st to October 1st, 1 to 2 bushels per acre, to which we suggest adding a bushel of Winter rye or wheat. Lb., 20c. Write for prices.

COW PEAS—These are the best, largest yielding and most nutritious of the farm crops. They provide the most inexpensive methods of bringing soil back to a state of fertility. In the South it is the staple forage crop for Winter feeding. They grow in the poorest kind of soil, taking the free nitrogen from the air, which it deposits in the ground through the roots, leaving it very rich in ammonia. Sow from May 1st to July 1st, 2 bushels per acre broadcast, or 1 bushel per acre in drills. Write for prices.

To Successfully Grow Alfalfa, Clovers, Cow Peas, Soy Beans, Vetches and other Legumes, to Increase Your Yield and to Improve Your Soil, Use

WHIPPOORWILL—Seed is reddish-brown speckled. Some claim that this variety is capable of gathering more nitrogen than others.

BLACK COW PEAS—This is a quick-growing variety, desirable for turning under.

WONDERFUL, OR UNKNOWN—An enormous producer, very late in maturing.

NEW ERA—An early upright-growing variety; smaller seed.

SOJA BEANS—The great drought-resisting forage crop. A soil enricher, because of its nitrogen gathering qualities. The fodder is relished in either green or dry form by cattle or dairy cows. Write for prices.

CHOICE SEED OATS—In these we offer only the very best varieties. Write for Prices.

GERMAN MILLET—Excellent for planting when other hay crops are short, as it is a very rapid grower and produces a very fine crop of hay. Write for Prices.

HUNGARIAN MILLET—The seed is a mixture of brown and yellow; the quality of the hay is not quite as good as the German; it can, however, be sown 2 weeks later. Write for prices.

WINTER WHEAT—In season we carry a large stock of the best varieties.

RYE—We carry both Winter and Spring Rye of the best quality.

SUNFLOWER, MAMMOTH RUSSIAN—This makes an excellent poultry food, especially for Winter use, on account of its fattening and heating qualities. Will yield sometimes as high as 60 bushels per acre. Lb., 10c. 5 Lbs., 30c. 100 Lbs., \$5.00.

Inoculate Your Alfalfa, Clovers, Cow Peas, Soy Beans, Vetches and all other legume crops with

Mulford Cultures

FOR LEGUMES

Small Cost

Easy to Use

Large Returns

No Labor Expense

Mulford Cultures contain pure, tested strains of active, vigorous nitrogen-fixing bacteria, for inoculating seeds of legumes or soil.



Uninoculated ALFALFA Inoculated
Photographed on same scale. Plant on left not inoculated—Plant on right inoculated with **Mulford Culture for Alfalfa**. All other conditions identical.

THE CONTRAST SPEAKS FOR ITSELF

Mulford Cultures are scientifically prepared and tested with the utmost care and skill. Enormous numbers of these very valuable and desirable bacteria are thus available to you in every package of Mulford Culture and may readily be applied to your seed. The sealed bottle insures purity.

Legumes offer the best-known means of maintaining soil fertility and rejuvenating over cropped and worn-out fields. They add both humus and nitrogen to your soil and thus increase your yield of wheat, cotton, corn and other non-legume crops.

The U. S. Department of Agriculture and many State Agricultural Experiment Stations recommend inoculation of legumes with nitrogen-fixing bacteria to induce a prompt "catch" and increase your yield.

Mulford Cultures are prepared for

ALFALFA (Lucerne)
CRIMSON CLOVER
SWEET CLOVER
RED CLOVER
ALSIKE CLOVER
BURR CLOVER

COW PEAS
SOY BEANS
PEANUTS
VETCH
VELVET BEANS
SWEET PEAS

GARDEN PEAS
GARDEN BEANS
LIMA BEANS
LESPEDEZA
BEGGAR WEED
AND OTHERS

Always specify on your order what crop you want to inoculate, as there is a different strain of bacteria for each legume.

PRICES

5-Acre Size, \$5.00 (A Dollar per Acre) 1-Acre Size, \$1.50 1/4-Acre Size, \$0.50
Small Size (Supplied only in 4 varieties, for Garden Peas, Garden Beans, Lima Beans and Sweet Peas) \$0.25

These prices include delivery on freight shipments

FREE DESCRIPTIVE LITERATURE SENT UPON REQUEST

CHOICE FLOWER SEEDS

Culture—Directions are printed on the back of nearly all of our Flower Seed packets. We will say that care should be exercised not to cover Flower Seeds too much. In nearly all cases it should be sprinkled on top of soil, and slightly pressed.



Comet Asters

(a.) **ANNUALS** are those flowers that bloom and ripen their seed the first year, then die. Among these will be found Asters, Balsams, Mignonette, Sweet Peas, Nasturtiums, Morning-glories, and many other very brilliant and fragrant flowers. In fact, if you want flowers early in the season, and all the time until frost, a good selection of Annuals will not disappoint you.

(p.) **PERENNIALS** are those flowers that endure our Winters with little or no protection, and live and bloom several years in succession. A large majority of the Perennials will bloom the first year if started early in the Spring. Hollyhocks, Larkspurs, Foxglove, Poppies, etc., are in this popular class.

ALYSSUM—Free flowering, pretty little plants for beds, edgings, or Winter blooming. The white varieties are hardy annuals, and bloom all Summer.

Little Gem—New, very dwarf, each plant covering a circle of about 5 inches. Pkt., 5c. Oz., 25c.

Sweet Alyssum—White. Pkt., 5c. Oz., 20c.

AGERATUM—Profuse blooming plants, bearing clusters of feathery blooms the whole Summer. Excellent for cut flowers and fine for large beds in Summer and as pot plants for Winter. Height 2 feet.

Dwarf Mixed—Pkt., 5c. Oz., 20c.

AMARANTHUS—Showy plants, some remarkable for large panicles of showy flowers and others for the brilliant range of colors in the leaves.

Caudatus—(Love-Lies-Bleeding)—Long red panicles. Pkt., 5c. Oz., 20c.

Tricolor—(Joseph's Coat)—Yellow, red and green. Pkt., 5c. Oz., 50c.

ANTIRRHINUM—(Snap Dragon)—One of the most charming of old fashioned flowers. The antirrhinum is a biennial, and blooms well the second season, but succeeds also as an annual. Pkt., 5c. Oz., 30c.

BALSAM OR LADY SLIPPER—These are very useful for borders. the plants make perfect little bushes with flowers that are double; the colors are very pretty and pleasing. Pkt., 5c. Oz., 60c.

BALLOON VINE—(Love in a Puff)—A rapid growing annual climber, succeeds best in light soil and warm situation; flowers white, seed vessels look like miniature balloons and they are of great interest. Pkt., 5c. Oz., 10c.

NEW COMET QUILLED ASTER—A very beautiful novelty in Comet Asters, the center of which consists of white quilled florets, artistically arranged in the form of a wreath, making a delightful contrast with the exquisite rose colored outer petals.

One of the most charming of the new Asters. Grows about 1½ feet high. Pkt., 10c. Oz., \$1.75.

PERFECTION PAEONY FLOWERED ASTERS—(Truffauts)—One of the handsomest sorts. The plants grow from 18 to 24 inches high; the flowers are borne on long wiry stems, are very large, from 3 to 4 inches in diameter, very double and in shape like a peony. The colors are both bright and delicate, and altogether this Aster is nearly perfection.

Mixed—Pkt., 10c. Oz., \$1.75.

DAHLIA—(a.) Bloom first year from seed if sown early. Double, mixed. Pkt., 10c. Oz., \$1.25.

DAHLIA—(a.) Single varieties from seed; are very popular, mixed. Pkt., 10c. Oz., \$1.25.

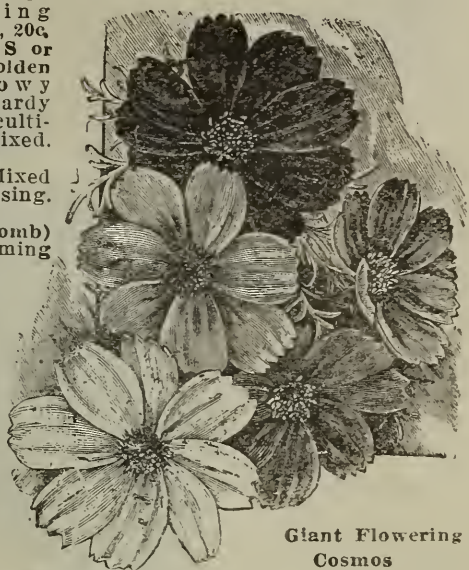
CANNA—(a.) One of the finest bedding plants. Pkt., 5c. Oz., 20c.

CALLIOPSIS or COREOPSIS—(Golden Wave)—(a.) Showy free flowering, hardy annuals of easy cultivation. Choicest, mixed. Pkt., 5c. Oz., 25c.

CANDYTUFT—Mixed for beds and massing. Pkts., 5c. Oz., 25c.

CELOSIA—(Coxcomb)—(a.) Free-blooming Grand for borders and very good for pots, mixed. Pkt., 5c. Oz., 75c.

CENTAUREA CYANUS—(Batchelor Button, or Corn Flower)—(a.) Beautiful, sweet-scented flowers. One of the finest annuals. Choicest mixture of very fine colors. Pkt., 5c. Oz., 30c.



Giant Flowering Cosmos

CENTUREA—(Dusty Miller)—(a.) For borders. Beautiful silver leaves. Pkt., 5c. Oz., 60c.

CHRYSANTHEMUM—(a.) Showy and effective garden favorites. These Summer-flowering border plants are quite distinct from the autumn-flowering varieties. Double fringed, mixed. Yellow and white. Pkt., 5c. Oz., 50c.

CINERARIA—(p.) For hothouse and window-garden. Prize mixture. Pkt., 35c and 60c.

COSMOS—(a.) An Autumn-flowering plant. A charming, profuse bloomer. Giant Rainbow variety, frilled. All colors, mixed. Pkt., 10c. Oz., \$1.00.

COSMOS—(a.) In separate colors, large flowering kinds. Pkt., 10c. Oz., \$1.25.

CONVOLVULUS—(a.) New, Imperial, Japanese, Large-flowering Morning-glory. Exceedingly vigorous, immense flowers; beautiful coloring in flowers. Finest ever produced. Pkt., 5c. Oz., 25c.

CONVOLVULUS—Choice mixture of climbing Morning glories. Pkts., 5c and 20c.

CYPRESS VINE—Popular vine, fernlike foliage and masses of beautiful, small, star-shaped flowers. White and scarlet, mixed. Pkt., 5c. Oz., 30c.

SEMPLE'S BRANCHING ASTERS—Beautiful Asters for cut flowers. Flower so large often mistaken for Chrysanthemum, which it closely resembles. Blooms from August 15 to end of season. The flowers are borne on long, graceful stems from 15 to 20 inches in length. One plant often covering a space of two and one-half feet square. It is by far the most satisfactory late Aster grown. Mixed Pkt., 10c. Oz., \$1.50.

CAMPANULA—(Bellflower, Canterbury Bell)—Favorite old fashioned, hardy plants. Beautiful and constant bloomers. Choicest Mixed—Embraces all the popular single and double sorts. Pkt., 5c. Oz., 90c.

CALENDULA—(Pot Marigold)—Free-flowering mixed. Pkt., 5c. Oz., 25c.



CARNATION—(Marguerite) Mixed—These lovely, fragrant flowers are in full bloom in about four months after sowing. Plants succeed alike in the open garden or in pots, and are of such vigorous, dwarf, erect growth that no supports are required. The range of color, marking, variegations and shading are simply wonderful. Pkt., 10c. Oz., \$1.25.

DAISY—(Mixed)—Adapted for edgings and borders, also grown in pots. This assortment is the finest mixed. Pkt., 10c. ¼ Oz., \$2.00.

DIANTHUS—(China Pink)—Free bloomers and easily raised from seed. Splendid for bouquets. Pkt., 5c. Oz., 50c.

DIGITALIS—(Foxglove)—(a.) A handsome and ornamental

perennial plant. Fine for shrubberies. Pkt., 5c. Oz., 50c.

HELICHRYSUM—(a.) Very showy and ornamental. Fine for cutting or garden decorations. Pkt., 5c. Oz., 50c.

Marguerite Carnation.

GAILLARDIA—(a.) Very attractive plants, producing a profusion of bloom the entire Summer and Autumn. Pkt., 5c. Oz., 40c.

All Prices Subject To Change Without Notice

FLOWER SEEDS—Continued

HELIOTROPE—(a.) Very fragrant flowers, remaining in bloom a long time; fine for pot culture or bedding. Pkt., 10c. Oz., \$1.25.

HOLLYHOCK—(Mixed)—(p.) Very popular and a favorite Autumn flower. Pkt., 5c. Oz., \$1.00.

LARKSPUR—(a.) Handsome and showy. Pkt., 5c. Oz., 50c.



Dianthus—China Pink

LOBELIA—(a.) Very desirable for pot culture and hanging baskets, because of its trailing habits. Pkts., 5c. Oz., 75c.

MARIGOLD—(Double African)—(a.) A well-known plant of easy culture, with rich and beautiful double various colored flowers. Pkt., 5c. Oz., 50c.

MARIGOLD—(Double French)—(a.) Of compact habit with numerous bright, showy flowers. Pkt., 5c. Oz., 50c.

MARVEL OF PERU—(Four O'Clock)—(a.) Very pretty and of vigorous growth. Pkt., 5c. Oz., 15c.

MIGNONETTE—(Sweet)—(a.) Valuable for cutting on account of its fragrance. Pkt., 5c. Oz., 20c.

MIGNONETTE—(Machet)—(a.) Large reddish tinted, sweet scented. Pkt., 5c. Oz., 50c.

ALLAN'S DEFIANCE—(a.) Deliciously fragrant. Pkt., 5c. Oz., 50c.

IPOMEA—(Moon Flower)—A showy and quick growing vine; flowers pure white, opening only at night. Pkt., 5c. Oz., \$1.00.

MYOSOTIS—(Forget-Me-Nots)—Succeed best in a shady, moist situation, perennials and hardy if given a slight protection through the Winter; blooms the first year from seed if sown early. Fine for edging or in beds with Pansies. Pkt., 5c. Oz., 75c.



Scarlet Sage

NASTURTIUM—(Variegated Tall, Mixed)—A fine assortment of colors, exquisitely set off by the variegated foliage. Pkt., 5c. Oz., 10c. Lb., 75c.

NASTURTIUM—(Variegated Dwarf, Mixed)—A great many colors have been obtained for this mixture, and it is very showy. Each leaf finely marbled with silver white. Pkt., 5c. Oz., 10c. Lb., 75c.

PANSIES—(W.-D. Co.'s Giant Flowering, Mixed)—A very robust grower, producing on long stems flowers of immense size and of unusual substance; the petals being very broad and over-lapping each other make the flowers appear almost double; many beautiful, rich and rare shades. Pkts., 10c and 25c. 1/4 oz., \$1.25. 1/4 oz., \$2.00.

PANSIES—(Heartsease)—A choice variety. All colors mixed. Pkt., 5c. Oz., \$1.00.

PASSION FLOWER—(a.) Southern Beauty Climber, mixed. Pkt., 10c. 1/4 oz., 40c.

PETUNIA—(Double)—(a.) Extra fine mixed colors. Pkt., 10c. 1/4 oz., 50c.

PETUNIA—(Finest Mixed)—This mixture is made up of all colors, and is one of the very best that can be had. Pkt., 5c. 1/4 oz., 25c.

PHLOX DRUMMONDI GRANDIFLORA—A bed in bloom dazzles the eye with its brilliancy and the different colors produce a beautiful effect. Sow seed in the open ground early. Pkt., 5c. Oz., 75c.

POPPIES—(Mixed)—Comprises all the double and single Poppies and also a number of other sorts especially purchased for this mixture, including some entirely new ones. Will make a grand display. Pkt., 5c. 1/2 oz., 20c.

PORTULACA—(Mexican Rose)—(a.) Fine for massing in beds or edgings of walk-ways. Pkt., 5c. Oz., 50c.

RICINUS—(Castor Oil Bean)—(a.) Ornamental plants of stately growth. Pkt., 5c. Oz., 25c.

SCARLET SAGE—(Salvia Bonfire)—The plants are of strong vigorous growth, and while beginning to bloom quite early in the season will attain a height and breadth of from three to three and half feet when in full flower. Nothing richer and more dazzling in color than this new Salvia has ever been offered. Pkt., 10c. 1/2 oz., 40c. 1/4 oz., 75c.

SCARLET SAGE—(Salvia Splendens)—The standard sort; an easy, continuous and persistent bloomer. These scarlet flowers surpass the brightest geraniums in color and quantity of bloom. Pkt., 5c.



Mammoth Verbena

SWEET WILLIAM—There is perhaps no flower more favorably known than the Sweet William. Hardly any garden is considered complete without its planting of Sweet Williams. They are easily grown from seed and produce a wonderful array of color. Perfectly hardy. Pkt., 5c. Oz., 60c.

SCABIOSA—(Mourning Bride)—Perfectly double flowers, useful for cutting, gracefully borne upon long slender stems; range of color from white to rich pink, crimson to deep red, lilac and black, mixed. Pkt., 5c. Oz., 40c.

STOCKS—TEN WEEKS—All the varieties are desirable as pot plants as well as in the open garden. They are greatly prized for cut flowers on account of their fragrance and colors. Mixed. Pkt., 5c. 1/2 oz., 50c.

SMILAX—Myrsiphyllum Asparagoides—A graceful tuberous-rooted, tender perennial climber, none surpassing it for its glossy deep-green, most delicate foliage and small white flowers; fine for vases and baskets. Soak the seed 24 hours before sowing; six to ten feet. Pkt., 5c. Oz., 50c.

VERBENA—Mammoth—Splendid for beds or massing flowers of most brilliant color. Blooming from early Summer until late in the Fall. Sow seed early in house, or out of doors in April. Pkt., 5c. 1/2 oz., 75c.

WALLFLOWER—Deliciously fragrant and combine many shades of color, the orange, purple and chocolate predominating; tender perennial, one and one-half feet. Pkt., 5c. Oz., 50c.

SCARLET RUNNER—Beautiful ornamental climber. Pkt., 5c. Oz., 15c.

ZINNIA—(Youth and Old Age)—(a.) Dwarf and tall Choice mixture. Pkt., 5c.

All Prices Subject To Change Without Notice

Large Flowering Sweet Peas

AGNES ECKFORD—Very light pink, self color. One of the most delicate shades of pink; medium large, hooded form.

AMERICA—Large size, open form. Very bright and effective and holds its color well. It is the brightest striped variety we have.

AURORA—Orange rose, striped on white. Extremely attractive.

BLACK KNIGHT—Deep claret. One of the darkest varieties.

BLANCHE BURPEE—Pure white, very large, graceful. Hooded form.

BLANCHE FERRY—Pink and white. Medium size, open form.

CAPTAIN OF THE BLUES—Almost true blue. It changes after opening to a bluish purple.

DUKE OF SUTHERLAND—Standard of a deep claret with strong reddish tinge, deepening to a rich purple; wings of deep violet purple.

DOROTHY ECKFORD—One of the best pure white varieties. Is semi-hooded of the best form, with large wings and very large standard, which averages two inches across. Is similar in effect to Blanche Burpee, but is full one-half larger.

EXTRA EARLY BLANCHE FERRY—One of the earliest Sweet Peas in cultivation; of the greatest value for cut flowers, being a dwarf, and more prolific bloomer than the original Blanche Ferry. Color deep rose pink, wings white.

HENRY ECKFORD—Almost a clear orange self. The nearest approach to orange yellow in Sweet Peas, and a beautiful color.

KATHERINE TRACY—Bright soft pink. A very vigorous grower.

KING EDWARD VII—The very best rich, dark red sort.

LOVELY—Shell pink; usually four blossoms to stem.

MAID OF HONOR—White, edged with lavender; hooded form.

MRS. JOSEPH CHAMBERLAIN—White, striped rose. Very large.

NAVY BLUE—One of the best. Medium size, semi-hooded form.

PRIMA DONNA—A pure pink, very large. The vine is a vigorous grower; usually four blossoms to the stem.

QUEEN ALEXANDRA—This is an intense scarlet self of grand texture—a bold expanded flower of finest form. It is very free-flowering and the flowers are of giant size with long strong stems.

SENATOR—Chocolate stripes on white ground. Large size. Any of the above. Price: Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 75c.

WISEMAN-DOWNS CO.'S SPECIAL MIXTURE
This unsurpassable mixture of Sweet Peas is a studied formula, containing correct proportions of various bright colors and shades, supplying a harmony of brilliancy. Pkt., 5c. Oz., 10c. ¼ Lb., 15c. Lb., 50c.



Black Burpee

CANNAS

Strong Field-Grown Plants

For a brilliant show all summer there is no plant excelling the canna. It even surpasses the geranium in its gorgeous display of brilliant colors, blooming continuously from the time of planting until cut down by frost. As cannas are good pot plants either for Summer or Winter flowering, they may be lifted and potted in the Fall before the approach of frost. Grown in this way, they are ready to continue their good work without disturbing the plants.

AUSTRIA—Enormous flowers, beautiful canary yellow with a silvery hue inside, slightly dotted with red. Both in foliage and flower this Canna surpasses all others. 10c each. 3 for 25c. 12 for \$1.00.

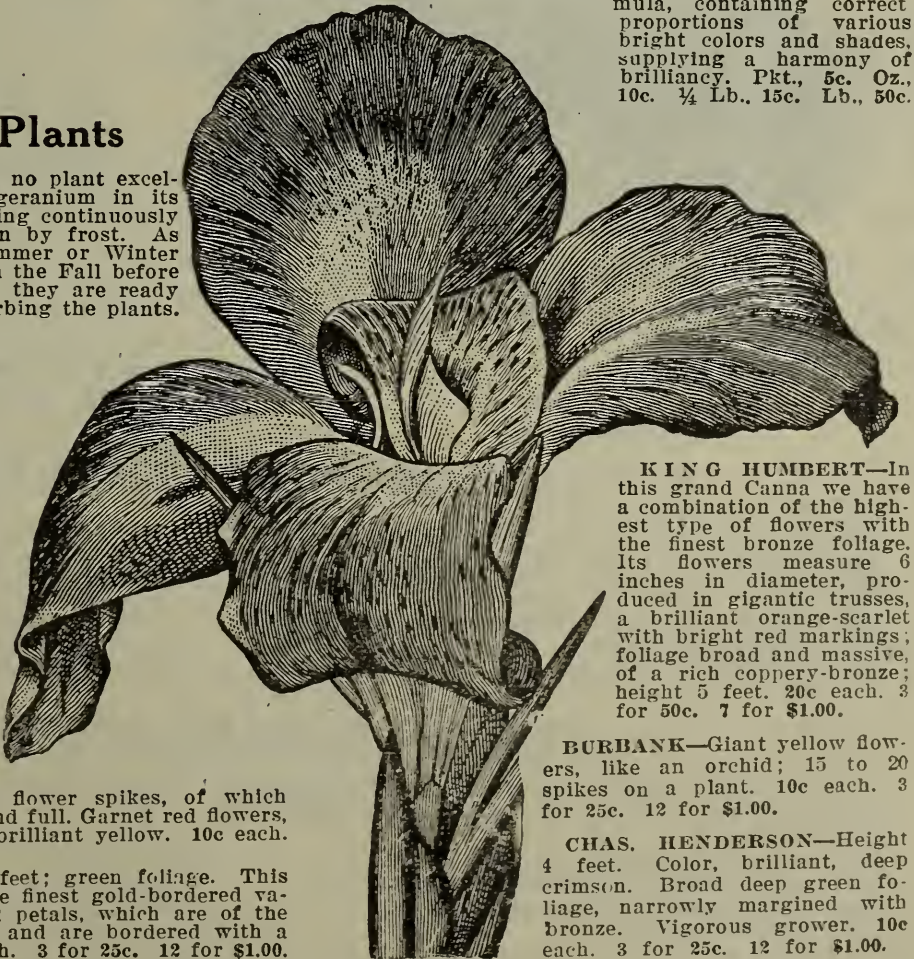
FLORENCE VAUGHAN—It still remains the highest type of new French Canna flowers. The flowers are a rich golden yellow, thickly dotted with brightest red. Height 5 feet. No Canna bed is complete without this perfect ever-bloomer. 10c each. 3 for 25c. 12 for \$1.00.

PAUL MARQUANT—Immense flowers, in bold, shapely trusses; shimmering salmon-rose, with silvery lustre of many changeable tints. 10c each. 3 for 25c. 12 for \$1.00.

PHILADELPHIA—An ideal bedding variety of medium height; a healthy, vigorous grower, with handsome foliage, and a continuous bloomer. Color a bright scarlet crimson, very rich and velvety. 10c each. 3 for 25c. 12 for \$1.00.

SOUVENIR DE MME. CROZY—Five feet; green foliage; extra strong grower. The flower spikes, of which there are 5 to 6 on a stalk, are very large and full. Garnet red flowers, with broad border, and large center of a brilliant yellow. 10c each. 3 for 25c. 12 for \$1.00.

SOUVENIR D'ANTOINE CROZY—Four feet; green foliage. This is a perfect gem, and in our estimation the finest gold-bordered variety. The flowers are large, well-rounded petals, which are of the intense scarlet-crimson, rich and dazzling, and are bordered with a broad, rich, golden-yellow border. 10c. each. 3 for 25c. 12 for \$1.00.



KING HUMBERT—In this grand Canna we have a combination of the highest type of flowers with the finest bronze foliage. Its flowers measure 6 inches in diameter, produced in gigantic trusses, a brilliant orange-scarlet with bright red markings; foliage broad and massive, of a rich coppery-bronze; height 5 feet. 20c each. 3 for 50c. 7 for \$1.00.

BURBANK—Giant yellow flowers, like an orchid; 15 to 20 spikes on a plant. 10c each. 3 for 25c. 12 for \$1.00.

CHAS. HENDERSON—Height 4 feet. Color, brilliant, deep crimson. Broad deep green foliage, narrowly margined with bronze. Vigorous grower. 10c each. 3 for 25c. 12 for \$1.00.

All Prices Subject To Change Without Notice

CANNAS—Continued

BEAUTE POITEVINE—(3½ feet)—This proved one of the best Cannas in our collection last Summer. It is of a bright, rich crimson color, with erect flower spikes. It seems to stand severe droughts better than most kinds, the flowers standing up during the hottest Summer days without injury. It comes into bloom very early and blooms continuously. 10c each. 3 for 25c. 12 for \$1.00.

ALPHONSE BOUVIER—Its every shoot is topped by enormous trusses of vivid crimson-scarlet flowers, a single plant sometimes showing 30 or 40 at one time. 10c each. 3 for 25c. 12 for \$1.00.

ALSACE—Pure white; grows from 4 to 6 feet; clear green foliage; produces from 12 to 18 shoots from a single eye. The only white Canna in existence. 10c each. 3 for 25c. 12 for \$1.00.

FLAMINGO—Immense trusses of superb deep, glowing crimson flowers. A sturdy and vigorous plant of dwarf habit, with massive dark green foliage. Good, not only for bedding purposes, but also for pot culture on account of its dwarf and compact habit and perpetual blooming qualities. 10c each. 3 for 25c. 12 for \$1.00.

ROBUSTA—One of the most effective of all dark-leaved varieties; valuable on account of its luxuriant dark bronze foliage; 6 to 8 feet. 10c each. 3 for 25c. 12 for \$1.00.

The above are all started plants. Ready in April and May.
DRY ROOTS.—50c dozen.



A Collection of Our Named Dahlias

NEW CENTURY SINGLE DAHLIAS

CRIMSON CENTURY—Crimson, shaded maroon, with rose halo around a yellow disc.

WHITE CENTURY.

LAVENDER CENTURY.

The above Single Dahlias, each, 15c.

EARLY FLOWERING CHRYSANTHEMUMS

CRIMSON MARIE MASSE—A crimson sport.

RALPH CURTIS—Creamy white sport of M. Masse.

HORACE MARTIN—Deep yellow sport of Masse. This is in all respects a splendid variety.

Mlle. MARIE MASSE—The best known early flowering variety. beautiful lilac-mauve.

BOBBY BURNS—A rosy cerise sort of Masse.

TUBEROSES

DOUBLE PEARL TUBEROSES
—This is of dwarf, stocky growth, the flower stalks attaining a height of about 2 feet; are compactly filled for two-thirds of their length with very large, perfectly double flowers, 1½ to 2 inches across. Doz., 25c.

MADEIRA VINE ROOTS—Each, 5c. Doz., 30c. Postpaid.

BEGONIAS—Tuberous - rooted; single, mixed. Each, 8c. Doz., 75c. Postpaid.

CALADIUMS—(Elephant's Ears)
—Large bulbs (9 and 11 inches). Each, 10c. By mail, 15c. Doz., \$1.00. Extra large bulbs (11 inches and upwards). Each, 15c. By mail, 20c. Doz., \$1.50. Prices, per dozen, are by express, not prepaid.

GLADIOLUS—Our mixtures are of the very finest, embracing all popular and distinct colors and varieties. Per doz., 25c and 35c. Add 10c per dozen if to go by mail.



CHOICE DAHLIAS

FANCY VARIETIES

PROGRESS—Rose, penciled crimson.

MAID OF KENT—Red, tipped white.

All the above listed, each, 10c. Doz., \$1.00.

PEONY FLOWERED VARIETIES

QUEEN EMMA—Distinct rose.

GERMANIA—Dazzling crimson.

WILHELMINA—Pure white.

The above, each, 20c.

CACTUS VARIETIES

KRIEMHILDE—Delicate shell pink, shading to cream in center.

COCKATOO—Lemon yellow and white.

VOLKER—Pure yellow.

GABRIEL—Crimson, tipped white.

DECORATIVE VARIETIES

LYNDHURST—Fine cardinal red.

C. M. BRUTON—Bright yellow.

MRS. HARTONG—Beautiful bronze.

WM. AGNEW—Glowing scarlet.

ZULU—Deep maroon.

SOUV. GUSTAVE DUZON—Immense red.

GRAND DUKE ALEXIS—White, sometimes tipped lavender.

SHOW VARIETIES

A. D. LIVONI—A seashell pink.

M. D. HALLOCK—Clear yellow.

STRIPED BANNER—Red, striped white.

FRANK SMITH—Maroon, tipped white.

TEA, OR EVERBLOOMING ROSES

PINK MAMAN COCHET—Deep rosy pink, the inner side of the petals being a silver rose, shaded and touched with golden yellow.

WHITE MAMAN COCHET—Snowy white blooms.

PAPA GOUTIER—Rich, rosy red; constant bloomer.

HERMOSA—Fine, old, pink rose.

LA FRANCE—Fine pink.

PERLE DE JARDINE—Yellow; good bloomer.

KAISERIN AUGUSTA VICTORIA—Large, fine bud of pure white.

GRUSS AN TEPLITZ—As a bedding rose this is the finest, being a rich, velvety red.

ETOILE DE LYON—This is the best yellow bedder; buds and blooms very double

All these varieties have given good results for outdoor culture. In different sizes, 35c and 50c. Doz., \$3.75 and \$5.50.

All Prices Subject To Change Without Notice

NURSERY DEPARTMENT

APPLES

SUMMER

- BENONI**—Yellow, nearly covered with red; juicy.
EARLY HARVEST—Medium, pale yellow, tender, juicy.
GOLDEN SWEET—Large, pale yellow, very sweet.
KESWICK CODLIN—Large, yellow, fine for cooking.
MAXSON'S EARLY—Strong grower with healthy foliage, hardy. Excellent bearer. In shape and appearance fruit is like Sweet Bough, but the flesh is tart, acid, good flavor and cooks perfectly tender.
RED ASTRACHAN—Large, beautiful deep crimson.
SOPS OF WINE—Medium, dark crimson.
SWEET BOUGH—Large, pale yellow, tender, sweet.

WINTER

- BALDWIN**—Large, bright red, juicy, crisp, sub-acid. One of the most popular Winter Apples. January to April.
BEN DAVIS—A leading commercial variety. Tree hardy, healthy, vigorous. Fruit large, handsomely colored, attractive. At its best in Virginia, Kentucky, Tennessee, Illinois, Missouri, Arkansas and portions of adjoining states. January to June.
FALLAWATER—Very large, globular; yellowish green, dull red cheek; juicy, crisp, pleasant sub-acid flavor. December.
GOLDEN RUSSET—Vigorous growth; medium; russet; crisp, juicy mild sub-acid; hardy; very good; long keeper. Ripening November to April.
GRIMES' GOLDEN—Medium to large; cylindrical; golden yellow, sprinkled with gray dots; flesh crisp, tender, juicy, sprightly, very good to best. Tree hardy, vigorous, productive, bears early. January to April.

Prices on above:	Each	Doz.
3 to 4 feet.....	25c	\$2.50
5 to 7 feet.....	35c	\$3.50

AUTUMN

- AUTUMN STRAWBERRY**—Tender, juicy, productive.
DUCHESS OF OLDENBURG—Good size, yellow, streaked red; juicy, rich, sub-acid, productive.
FALL PIPPIN—Large, yellow, rich, aromatic.
GRAVENSTEIN—Large, striped; fine quality; one of best Fall sorts.
HAAS—(Fall Queen)—Large, striped, vigorous and productive.
MAIDEN'S BLUSH—Large, beautiful, blush cheek.
MUNSON SWEET—Good size, yellow, red cheek.
RAMBO—Medium, yellow, streaked red.
RED BIETIGHEIMER—Large, yellow, shaded red; flesh white, juicy, with a brisk sub-acid flavor.
WESTERN BEAUTY—Large, shaded bright red on pale yellow; crisp, tender, mild, sub-acid.

CRAB APPLES

- EXCELSIOR**—Tree a strong grower, hardy and healthy. Fruit large for a crab apple and very attractive; flavor agreeable.
HYSLOP—Almost as large as Early Strawberry; apple deep crimson; very popular on account of its large size, beauty and hardiness. Vigorous. October to January.
MARTHA—A new variety; a seedling of the Duchess of Oldenburg. Resembles the Transcendent, but larger; beautiful showy fruit and bears enormously. All things considered, we doubt if it has an equal among the crabs. Vigorous. September and October.
TRANSCENDENT—Skin yellow, striped with red; flesh crisp and juicy. An early and heavy bearer. One of the best known varieties. Vigorous. September and October.
WHITNEY—Large, glossy green, striped, splashed with carmine, flesh firm, juicy and flavor very pleasant; ripe latter part of August. Tree a great bearer and very hardy; a vigorous grower, with a dark green glossy foliage. Vigorous. August.
 Price—Each, 25c. Doz., \$3.00.

PEARS

- Our pear trees are grown on heavy clay soil, especially well adapted to the production of strong, vigorous stock. No better trees can be grown.
BARTLETT—Large, buttery, juicy, high-flavored, great bearer; very popular. August and September.
FLEMISH BEAUTY—Large, juicy, melting, rich and fine; good bearer; hardy everywhere. Vigorous. September and October.
WORDEN SECKEL—A seedling of Seckel. Fruit medium size, borne in clusters, juicy, buttery, fine-grained, with a flavor and aroma fully equal to that of its parent, which it surpasses in size, beauty and keeping qualities. Ripens in October, but will keep in good condition till December.
KOONCE—Medium to large, handsome; yellow; flesh juicy, sweet, spicy, good. Ripens with the earliest. Tree a strong grower, hardy, and productive. August.
KEIFFER—Its large size, handsome appearance and remarkable keeping and shipping qualities make it exceedingly profitable for market. October and November.
 Price Pear Trees: Each Doz.
 3 to 4 feet.....25c \$2.50
 4 to 5 feet.....50c \$4.50
DWARF PEAR—Anjou, Lawrence Angouleme, Manning's Elizabeth, 40c each. \$3.50 doz.

PEACHES

Trees are all grown free from insects, perfectly healthy, well-ripened wood, with splendid roots, all stored in frost-proof cellars beyond injury during the Winter.

Owing to a magnificent growing season, our peach trees have made up largely to the 4 to 6 feet grade; fine well developed trees. The smaller grades and mail size will be scarce stock in many varieties.

Will be pleased to quote prices on large lots on receipt of list. Those desiring trees for orchard planting, should place orders early.

Ad. Dewey, Alexander, Banner, Barnards, Beer's Smock, Belle, Capt. Edé, Carman, Chairs Choice, Champion, Crawford's Early, Crawford's Late, Crosby, Elberts, Engles' Mammoth, Fitzgerald, Foster, Globe, Gold Drop, Greensboro, Heath Cling, Hills' Chili, Kalamazoo, Lemon Free, Lewis, Marshall's, Mathew's Beauty, Mayflower, Mountain Rose, Niagara, Old Mixon Free, Prolific, Reeve's, Salway, Smock, Sneed, Stephen's, Stump, Triumph, Wheatland, William's Favorite, Wonderful and Yellow St. John. 20c each. \$2.00 per doz.

PLUMS

BURBANK—The best and most profitable among growers for market; ripens 10 to 14 days after Abundance. Tree hardy, sprawling, vigorous grower, unequaled in productiveness; bears young. Fruit large, excellent quality; cherry red with lilac bloom. August. 35c each. \$2.50 doz.

ABUNDANCE—(Botan.)—One of the oldest and best known Japanese varieties. Hardy and productive. Fruit large, lemon yellow, with heavy bloom; good quality. August. 35c each. \$3.00 doz.

SHROPSHIRE DAMSON—Medium, dark purple, very productive; best for preserving. October. 25c each. \$2.50 doz.

MAYNARD—(H) A sturdy, strong and very rapid grower, with heavy, luxuriant foliage. It fruits heavily every year, not over-hanging but yielding a full satisfactory crop, bearing its burden of fruit on the inside of the tree. Fruit is very large, nearly round, color deep, dull red, thin whitish bloom. Flesh firm, melting and juicy, rich and sweet, extra fine quality. Its shipping qualities are unsurpassed. 35c each. \$3.00 doz.

QUINCES

Price of Quince Trees:	Each	Per 10
Angers, 4 to 5 feet.....	\$.30	\$2.50
Angers, 3 to 4 feet.....	.25	2.00
Champion and Bourgeat, 4 to 5 feet.....	.40	3.50
Champion and Bourgeat, 3 to 4 feet.....	.35	3.00
Rea and Orange, 4 to 5 feet.....	.60	5.00
Rea and Orange, 3 to 4 feet.....	.50	4.00

BOURGEAT—The strongest grower, fruiting at three and four years in nursery rows. Fruit of largest size, round, rich, golden color; smooth; very tender when cooked. 30c each. 4 for \$1.00.

ANGERS—A free bearer of good sized fruit, but of inferior quality. 20c. \$1.00 for 6.

CHAMPION—Prolific and constant; fruit averaging larger than the Orange, more oval; bears extremely young. Ripens late. 30c each. 4 for \$1.00.

ORANGE—Fruit large, bright yellow, of excellent flavor. 35c each. 3 for \$1.00.

REA—A seedling of the Orange, averaging much larger. 35c each. 3 for \$1.00.

MULBERRIES

Price of Mulberry Plants:	Each	Per 10	Per 100
New American and Downing, 4 to 5 feet....	\$.60	\$5.00	.....
New American and Downing, 5 to 6 feet....	.75	6.00	.....
Russian and White, 4 to 6 feet.....	.30	2.50	.....
Russian and White, 3 to 4 feet.....	.20	1.50	.....
Russian and White, 1 year.....	.10	.50	\$1.50
Black English, 4 to 6 feet.....	.40	3.50	.....
Black English, 3 to 4 feet.....	.30	2.50	.....
Black English, 1 year.....	.10	.50	2.00

NEW AMERICAN—Equal to Downing's in all respects and much hardier. Vigorous grower, very productive; the best variety for fruit; ripe from middle June to middle September. 35c each. 3 for \$1.00.

DOWNING'S EVERBEARING—Very large, black, handsome, sweet, rich and excellent. 35c each. 3 for \$1.00.

RUSSIAN AND WHITE—10c each. 25 for \$1.00. 100 for \$2.00.

BLACK ENGLISH—10c each. 25 for \$1.00. 100 for \$2.50.

RASPBERRIES

	Per Doz.	Per 100
Cuthbert	\$.50	\$3.00
Gregg .....	.75	4.00
Miller Red .....	.50	3.00
St. Regis	1.00	6.00

All Prices Subject To Change Without Notice

Nursery Department—Continued

CHERRIES

HEART AND BIGARREAU

BLACK TARTARIAN—Very large, bright purplish black; half tender, juicy, very rich, excellent flavor; productive. First to middle of July.

GOV. WOOD—One of the best cherries; very large; light yellow; marbled with red; juicy, rich and delicious. Tree healthy and a great bearer. Hangs well on the tree. Vigorous. Last of June.

NAPOLEON BIGARREAU—Very large, pale yellow or red; very firm, juicy and sweet, very productive; one of the best. Vigorous. First of July.

WINDSOR—Fruit large; liver colored, resembling the Elkhorn, ripening a few days after that variety; flesh remarkably firm, of fine quality. Tree hardy and prolific. Vigorous. Middle of July.

YELLOW SPANISH—Large, pale yellow, with red cheek; firm, juicy and excellent; one of the best light colored cherries; productive. Last of June.

DUKE AND MORELLO

EARLY RICHMOND—Medium size; dark red; melting, juicy, sprightly, acid flavor. This is one of the most valuable and popular of the acid cherries; is unsurpassed for cooking purposes, and is exceedingly productive. June.

ENGLISH MORELLO—Medium to large; blackish red; rich, acid, juicy and good; very productive. Moderate. August.

MAY DUKE—Large, dark red, juicy and rich. an old, excellent variety; productive. Middle of June.

MONTMORENCY—A large red, acid cherry, larger than early Richmond and fully ten days later. Very profitable. Early Richmond hangs in clusters and is more liable to rot. Last of June.

Price Cherries, 50c each. \$4.75 dozen.

STRAWBERRIES

Strawberries will succeed in any soil that is adapted to ordinary farm or garden crops. Soil should be thoroughly prepared to a good depth, well-drained and enriched. Vegetable manure (muck, rotten turf, wood soil, ashes, etc.,) is the best. For field culture set in rows 3 to 3½ feet apart 15 to 18 inches in rows; for garden 15 inches apart each way, leaving pathway every third row. To produce fine, large fruit, keep in hills, pinching runners off as soon as they appear. Ground should always be kept clean and well cultivated. In Winter a covering of leaves, straw or some kind of litter will protect the plants. Do not cover them until ground is frozen or so deep as to smother the plants, and remove covering before growth starts in Spring. Mulching will keep the fruit clean and the soil in good condition through the fruiting season.

NICK OHMER—Very large and stocky, sending out plenty of very strong runners, probably not surpassed in healthy, vigorous growth and productiveness by any variety. The fruit is of the largest size, never misshapen. Its only departure from the regular roundish conical form is when, under high culture, it is somewhat triangular. It is dark, glossy red, firm and of excellent flavor.

BRANDYWINE—A fine, large, late, handsome, productive berry of excellent quality; regular conical form; dark, glossy red, extending to the center. Plant healthy and vigorous; abundant producer. An extra good sort for all purposes.

WM. BELT—A large, handsome, productive berry for market or home use. Vigorous, thrifty, heavy plant, producing large crops under good common matted row culture. Berries extra large, conical, quite uniform in shape, brilliant glossy red; ripens all over without green tips; good quality; carries well to market and brings highest price. One of the best varieties.

HAVERLAND—(P) A fine grower, very productive. One of the leading early market sorts. Berries bright red; large, long, uniform; medium size and quality.

GANDY—A reliable late variety; berries bright crimson, very uniform in size and shape, large and firm, plants vigorous and healthy.

SENATOR DUNLAP—Very productive. Large, bright, or slightly dark red. Quality the very best.

GLEN MARY—A fine, large, late berry of excellent quality.

STEVENS' LATE CHAMPION—Large, light red berries, pointed globular; regular and perfect in form; very firm and of extra high quality. An ideal plant to produce large berries and yield an enormous crop.

Price any above layer plants: 20c per Doz. 60c per 100. \$5.00 per 1000.

BLACKBERRIES

We handle no suckers, offering only strong, vigorous heavily rooted plants, grown from root-cuttings.

Prices of Blackberries	Each	10	100	1000
Snyder, Taylor's Prolific, Kittatinny, Wilson's	.10	\$.30	\$1.75	\$15.00
Ancient Briton, Eldorado and Ward	.10	.60	2.25	.....
Blowers	.15	1.00	2.50	20.00
Mersereau	.10	.60	2.00	17.00
Ohmer	.10	.60	2.25	.....
Lucretia Dewberries	.10	.50	1.25	10.00

GRAPES

Price of Grape Vines:

	Each	Per 10	Per 100
Agawam, 1 year.....	\$.10	\$.60	\$4.00
Agawam, 2 years.....	.15	.80	5.00
Brighton, 1 year.....	.10	.60	5.00
Brighton, 2 years.....	.15	.80	6.00
Campbell's Early, 1 year.....	.15	1.00	7.00
Campbell's Early, 2 years.....	.20	1.50	10.00
Catawba, 1 year.....	.10	.50	3.00
Catawba, 2 years.....	.15	.60	4.00
Champion, 1 year.....	.10	.60	4.00
Champion, 2 years.....	.15	.80	5.00

Price of Grape Vines:

	Each	Per 10	Per 100
Concord, 1 year.....	\$.10	\$.50	\$2.50
Concord, 2 years.....	.10	.60	3.50
Delaware, 1 year.....	.10	.60	4.00
Delaware, 2 years.....	.15	.80	5.00
Diamond, 1 year.....	.10	.60	5.00
Diamond, 2 years.....	.15	.80	6.00
Green Mountain, 1 year.....	.20	1.50	.....
Green Mountain, 2 years.....	.25	2.00	.....
Ives, 1 year.....	.10	.60	4.00
Ives, 2 years.....	.15	.80	5.00

APRICOTS AND NECTARINES

ALL LEADING VARIETIES

Each, 50c. Per Doz., \$5.00.

GOOSEBERRIES

DOWNING—Large, handsome, pale green, and of splendid quality for both cooking and table use; bush a vigorous grower, and usually free from mildew. 15c each. \$2.00 Doz.

HOUGHTON'S—Small to medium; roundish, oval, pale, red, sweet; tender, very good; plants spreading; shoots slender, enormously productive. 15c Each. \$2.00 Doz.

INDUSTRY—Berries of largest size, excellent flavor, pleasant and rich; dark red color when fully ripe. Strong upright grower; an immense cropper, less subject to mildew than most of the foreign varieties. The best known and most successful English sort. 30c Each. \$3.00 Doz.

CURRANTS

FAY'S PROLIFIC—The leading market variety. Extra large stems and berries, uniform in size, easily picked, exceedingly productive. No variety ever made as quick a jump into popular favor, the demand most seasons being in excess of the supply. 15c Each. \$1.25 Doz.

CHERRY—Berries sometimes more than half an inch in diameter. bunches short, vigorous and productive when grown on good soils and well cultivated. 15c Each, \$1.25 Doz.

COMET—The bunches are almost approaching grapes in size, being frequently eight inches in length, with from 20 to 26 berries of enormous size and of the most brilliant crimson color. The growth is abnormally vigorous. It will hang a long time in good condition. The first picking has been made as soon as the 10th of June and the last as late as the 22nd of August during three seasons, from the same bushes. 15c Each. \$1.25 Doz.

NUT-BEARING TREES

	Each
ENGLISH WALNUT.....	\$.50
American Chestnut.....	5 to 6 ft. .50
Japan Chestnut.....	2 to 3 ft. 1.00
Spanish Chestnut.....	3 to 4 ft. 1.00
Black Walnut.....	4 to 6 ft. .60
Pecans.....	1½ to 2 ft. .50
Hickory.....	1½ to 2 ft. 1.00
Japan Walnut.....	4 to 5 ft. .60

HEDGE PLANTS

Evergreen must be handled with care; the roots should not be allowed to dry out. Plants for hedges should be placed about twelve inches apart, more space being allowed for larger plants. California Privet, Honey Locust and Osage Orange are generally planted in double rows about nine inches apart. Other deciduous shrubs for hedges should be planted about twelve inches apart.

EVERGREEN HEDGE PLANTS—Arbor Vitae, (American), Pine (Austrian), Arbor Vitae (Siberian), Pine (Scotch), Mahonia aquifolia, Norway Spruce, Tree Box (in variety), Dwarf Box.

DECIDUOUS HEDGE PLANTS—Berberis Thunbergii, Buckthorn, Honey Locust, Japan Quince, Osage Orange, Privet (California), Rosa rugosa, Spireas, Tamarix, Thorn, (coccinea), Thorn (crus galli).

Price on Hedge Plants on application.

All Prices Subject To Change Without Notice

INSECTICIDES



HAMMOND'S SLUG SHOT

A nonpoisonous powder; it requires no further mixing or preparation; easily applied; not injurious or dangerous to animals, the person applying it, or fruits and vegetables treated; destroys potato bugs and beetles, green and black flies, slugs, worms, caterpillars, etc. 10 to 40 lbs. is sufficient for an acre.

1 lb. pkg., 10c. 5 lbs., 30c.

HAMMOND'S GRAPE DUST

For blight and mildew. 5 lbs., 40c.

PARIS GREEN

Prices on application.

WHITE HELLEBORE

For the destruction of slugs, worms, caterpillars, etc. Less poisonous than Paris Green and London Purple.

Prices on application.

COPPER SULPHATE

Prices on application.

FLOWERS OF SULPHUR

1 lb.....10c	10 lbs....per lb., 6c	50 lbs..per lb., 4c
5 lbs....per lb., 8c	25 lbs....per lb., 5c	100 lbs..per lb., 4c

Special Prices in Bbl. Lots.

FLOUR OF SULPHUR

1 lb.....10c	10 lbs....per lb., 6c	50 lbs..per lb., 3 1/2c
5 lbs....per lb., 7c	25 lbs....per lb., 5c	100 lbs..per lb., 3 1/4c

Special Prices in Bbl. Lots.

IRON SULPHATE, OR COPPERAS

Prices on application.

NICO-FUME

Nico-Fume is a Tobacco Paper Insecticide for fumigating greenhouses. Extensively used by prominent florists.

24 sheets.....75c 144 sheets.....\$3.50 288 sheets.....\$6.50

NICO-FUME LIQUID

4-oz. can, 50c. 8-oz. can, 1-lb. can, \$5.50.
8-lb. can, \$10.50.



LEMON OIL COMPANY'S STANDARD INSECTICIDE (Soluble in Water)

The cheapest and most effectual plan for destroying insects and cleaning the plants is by dipping when possible. A man will thoroughly cleanse as many plants in 1 hour this way as he could in several days by sponging. A No. 1 pot with the drainage hole corked, will be found a capital dipping vessel for ordinary-sized plants. For larger plants a barrel, with 1/3 sawed off, will answer the purpose. Climbers can be syringed or sprayed in any position, as the drip will not hurt the most delicate object.

Prices

1/2 pt.....\$.25	1/2 gal.....\$1.25
1 pt......40	1 gal..... 2.00
1 qt......75	5-gal. can. 9.00
	10-gal. can, \$17.50

TOBACCO DUST

For green and black aphids, fleas, beetles, etc. Splendid fertilizer and preventative for insects in the ground and around roots. For insects on plants, apply with powder duster or bellows. For worms or grubs in the soil, apply liberally to the surface and rake in, or strew thickly in the drills before planting.

Prices

5 lbs.....25c | 20 lbs.....60c | 100 lbs.....\$2.25

TOBACCO STEMS

Indispensable for fumigating greenhouses and conservatories for the destruction of green and black aphids and other insects.

Dampen thoroughly a few hours before using, place about 1/2 lb. over a handful of shavings in a fumigator, and light. 50-lb. bale, per lb., 3c. 100 lbs., \$1.00.

All Prices Subject To Change Without Notice

NIKOTEEN

Is the most powerful known insecticide, and will be found more economical and convenient than weak tobacco extracts.

Prices

Pint\$1.50
VAPORIZING PANS (for above)......60
IRONS60
3 PANS, 3 IRONS and 1 HOOK..... 3.50

SULPHO-TOBACCO SOAP

A safe and sure exterminator of all kinds of insects and vermin. Pkgs., 10c and 20c.



STERLINGWORTH FISH OIL SOAP

FISH OIL SOAP

A combination of Fish Oil Soap and Tobacco, so compounded that it combines with the valuable properties of this soap, the insecticide values of tobacco and nicotine.

For Oyster Shell or San Jose Scale, Red Spider, Plant Lice and all sucking insects. Price: 1 lb., 20c. 5 lbs., 75c.

STERLINGWORTH POWDERED HELLEBORE

POWDERED HELLEBORE

Destroys eating insects on plants, shrubs, currant bushes, vegetables, etc.

Is a valuable insecticide and repellant to all eating insects attacking currants and rose bushes, cabbages, squash, cucumber, etc.

Prices on application.



BORDEAUX ARSENATE-LEAD MIXTURE (Paste)

This is a combined fungicide and insecticide specially recommended for Apple and Pear Trees; also for Potatoes, Melons and Cucumber Vines.

Directions—Apple and Pear Trees, 8 to 12 lbs. to 50 gallons of water and stir.

1-lb. pkg., per lb.....	25c
2-lb. pkg., per lb.....	22c
5-lb. pkg., per lb.....	20c
10-lb. pkg., per lb.....	19c
20-lb. pkg., per lb.....	18 1/2c
25-lb. pkg., per lb.....	18c
50-lb. pkg., per lb.....	16c
100-lb. pkg., per lb.....	14 1/2c
Barrels, 500 lbs., per lb.....	14c

ARSENATE OF LEAD (Paste)

Kills Coddling Moth, Worms, Curculio, Caterpillars, Potato Bugs, Rose Bugs, and all chewing insects without injury to foliage or buds.

Directions—For all chewing insects, use 2 to 4 ounces to 1 gallon of water. Add water slowly till rubbed to a thin paste before adding to the volume of water.

1-lb. pkg., per lb.....	
2-lb. pkg., per lb.....	
5-lb. pkg., per lb.....	18c
10-lb. pkg., per lb.....	16c
20-lb. pkg., per lb.....	15c
25-lb. pkg., per lb.....	14c
50-lb. pkg., per lb.....	13 1/2c
100-lb. pkg., per lb.....	13c
Barrels, 400 to 600 lbs., per lb.....	12c

BORDEAUX MIXTURE (Paste)

Recommended for Rust, Scab and all kinds of Rot and other fungous diseases. Should be used on Potatoes, Grape Vines and all Fruit Trees.

Directions—For Apple and Pear Trees, 10 to 12 lbs. to 50 gallons of water; Peach and Plum Trees, 6 to 8 lbs. to 50 gallons of water.

1-lb. pkg., per lb.....	26c
2-lb. pkg., per lb.....	25c
5-lb. pkg., per lb.....	21c
10-lb. pkg., per lb.....	19c
20-lb. pkg., per lb.....	18 1/2c
25-lb. pkg., per lb.....	18c
50-lb. pkg., per lb.....	18c
100-lb. pkg., per lb.....	17 1/2c
Barrels, 500 lbs., per lb.....	16c

ORIOLE WEED KILLER

For the extermination of Weeds in walks and driveways.

1 gal.....	\$1.00
5 gals.....	4.25
10 gals.....	7.00
1/2 bbl., per gal.....	.60
Bbl., per gal.....	.55

INSECTICIDES—Continued

LIME-SULPHUR SOLUTION

This material combines the great fungicidal properties of Sulphur with the scale remedy, and is specially recommended for Peach and Plum Trees, which need the combined treatment in the Fall and Spring. In spraying this material care should be exercised to avoid getting it in the eyes, and gloves should be worn to protect the hands.

1-pt. cans.....	\$.25
1-qt. cans.....	.40
½-gal. cans.....	.50
1-gal. cans.....	.75
5-gal. cans.....	2.25
10-gal. cans.....	3.50
½-bbl. per gal.....	.20
1 bbl. per gal.....	.15

Special Price in Larger Quantities

Add 9 to 10 parts cold water to one part LIME-SULPHUR SOLUTION and stir thoroughly. Apply with spray pump.

TREE TANGLEFOOT

For protecting trees against climbing insect pests in a simple, economical and effective way, use Tree Tanglefoot—a sticky substance applied directly to the bark of trees. One application remains sticky on the trees months fully exposed to the weather. Easily applied with a small wooden paddle. One lb. will spread 8 feet long by 5 inches wide, 1/16 inch thick. Will stay on tree three months.

1-lb. Can.....	\$.30
3-lb. Can.....	.85
10-lb. Can.....	2.65

BORDEAUX MIXTURE

(Powder)

For blight on Potato, Tomato, Celery Plants, Trees, etc., also for fungous diseases.

1-lb. pkg., per lb.....	.40c
5-lb. pkg., per lb.....	.35c

Larger sizes quoted on application.

APHIS PUNK (Nikoteen)

Especially designed for use in private places and in houses without convenient furnaces for heating irons necessary for vaporizing Nikoteen or Tobacco Extract. It is very effective as an insecticide. The Punk is lighted with a match and allowed to burn, which it does without flaming, at the same time giving off dense white fumes of Nikoteen that kill aphids and thrip very effectively. Per box, 60c. Per 12 boxes, \$6.50.

BUG DEATH

Kills Potato, Squash and Cucumber Bugs, Currant and Tomato Worms, and all Bugs and Worms that chew the leaves of plants; non-poisonous.

Directions for Applying Dry—For potato and other vines which require a top application, apply drops with Shaker or Sifter at the rate of 15 to 25 pounds per acre to an application, according to size and conditions of the vines.

1-lb. pkg.....	\$.15
3-lb. pkg.....	.35
5-lb. pkg.....	.50
12½-lb. pkg.....	1.00
100 lbs.....	7.50

Add 17c per lb. for postage.

Directions for Using in Water—Add 15 to 25 pounds to 80 gallons of water and mix thoroughly.

SHAKERS FOR APPLYING BUG DEATH, 25c



"BLACK LEAF 40"

A Concentrated Solution of Nicotine Sulphate.

For spraying against sucking insects, such as green and Woolly Aphis, Pear Psylla, Grape Leaf Hopper, Pear Thrip, etc., use one part Black Leaf 40 to about 900 to 1000 parts water.

Against more resistant plant lice, such as Black Aphis and Rosy Apple Aphis, one part Black Leaf 40 to 500 parts water.

Black Leaf 40 is permitted by the United States Government and by State regulations to be used in official dippings of Sheep and Cattle for Scabies.

Full directions on every package.

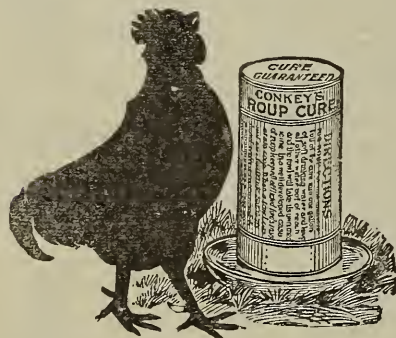
Prices:

¼-lb. can.....	\$.75
2-lb. can.....	2.50
10-lb. can.....	10.75

F. O. B. Baltimore.

POULTRY SUPPLIES

All Conkey's Remedies are guaranteed to give satisfaction, if used according to directions, which are on each package.



CONKEY'S ROUP CURE—Price, 25c, 50c and \$1.00 postpaid.

CONKEY'S GAPE REMEDY—Price, 50c and 60c, postpaid.

CONKEY'S CHOLERA REMEDY—Price, 25c and 50c, postpaid.

CONKEY'S CHICKEN-POX REMEDY—Price, 50c and 55c, postpaid.

CONKEY'S LIMBER NECK REMEDY—Price, 50c and 55c, postpaid.

CONKEY'S SCALY LEG REMEDY—Price, 50c and 55c, postpaid.

CONKEY'S RHEUMATIC REMEDY—Price, 50c and 55c, postpaid.

CONKEY'S BRONCHITIS REMEDY—Price, 50c and 55c, postpaid.

CONKEY'S HEALING SALVE—Price, 25c and 50c, postpaid.

CONKEY'S POULTRY LAXATIVE—Price, 25c, postpaid.

CONKEY'S POULTRY TONIC—Price, 25c and 30c, postpaid.

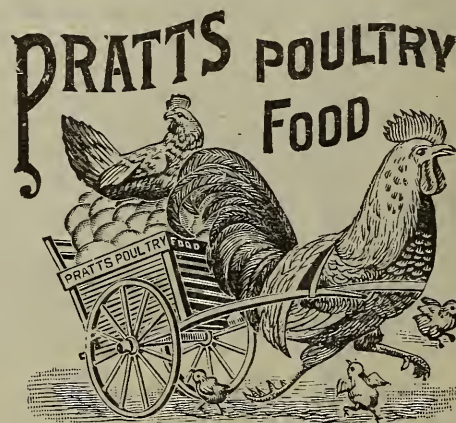
CONKEY'S HEAD LICE OINTMENT—Price, 10c and 25c, postpaid.

CONKEY'S LAYING TONIC—Price, 25c.

CONKEY'S LICE POWDER—Price, 10c and 25c.

CONKEY'S LICE LIQUID—Price, 1 qt., 35c. 2 qts., 60c.

CONKEY'S NOXICIDE—(A fine disinfectant and germ destroyer.) Price, 1 pt., 35c. 1 qt., 60c. 2 qts., 90c.



TRADE MARK REGISTERED

PRATT'S POULTRY REGULATOR—Is absolutely pure; a guaranteed egg producer. 26-oz. pkg., 25c. 5-lb. pkg., 60c. 12-lb. bag, \$1.25. 25-lb. bag, \$2.00.

PRATT'S ROUP CURE—Pkg., 25c.

PRATT'S LICE POWDER—Pkgs., 10c and 25c.

PRATT'S LIQUID LICE KILLER—Qt., 35c.

PRATT'S HEAD LICE OINTMENT—Pkg., 25c.

PRATT'S ANIMAL REGULATOR—Pkgs., 25c and 50c.

PRATT'S WORM POWDER—Pkg., 50c.

PRATT'S COUGH, COLD AND HEAVE CURE—Pkg., 50c.

PRATT'S COLIC CURE—Pkgs., 25c and 50c.

PRATT'S VETERINARY LINIMENT—Pkgs., 25c and 50c.

PRATT'S PEERLESS HOOF OINTMENT—Pkg., 25c.

PRATT'S CALF TONIC—Pkg., 50c.

PRATT'S COW TONIC—Pkg., 50c.

PRATT'S BABY CHICK FOOD—1 lb., 10c. 3 lbs., 25c. 14 lbs., \$1.00.

All Prices Subject To Change Without Notice

POULTRY SUPPLIES—Continued



NAPCREOL

A concentrated preventive of
disease Guaranteed to
do the Work.

Napcreol is a highly concentrated, non-poisonous preparation, which is made ready for immediate use by simply mixing with the required amount of water. One gallon of Napcreol will make 100 gallons of disinfectant.

Qt. \$.50
2 qts.85
Gal. 1.50

CYPHERS LICE POWDER

Not a Lice Driver, but a Lice Killer

5-oz. package (trial size), 10c; postpaid, 15c.
15-oz. box, 25c; postpaid, 40c. 48-oz. box, (by
express at customer's expense), 50c. 100-oz.
package (by express at customer's expense),
\$1.00.

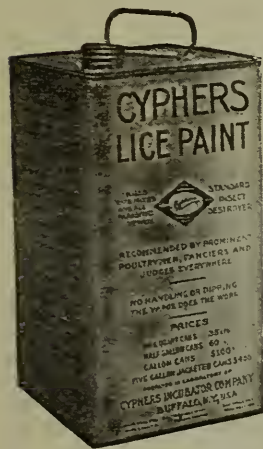


CYPHERS LICE PAINT

A Safe and Sure Liquid for Killing
All Insects Affecting Poultry
or Stock

Bear in mind that Cyphers Lice Paint is strong—it has to be to do the work, for lice are hard pests to exterminate. Full directions for killing lice, mites and ticks on poultry, horses, cattle, sheep and hogs on the label of every package of Lice Paint.

Qt. \$.35
2 qts.60
Gal. 1.00

CYPHERS PURE SULPHUR
FUMIGATING CANDLES

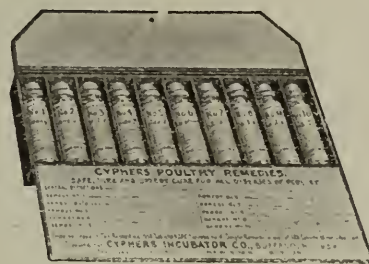
The Cyphers Company's Pure Sulphur Fumigating Candles are easy to light, easy to extinguish, safe to use and produce a vapor deadly to all infectious disease germs and insect life. Price, 15c; postpaid, 25c. Per doz., by express, \$1.25.



CYPHERS INCUBATOR THERMOMETER.....65c
BROODER THERMOMETER.....50c
BLUE FLAME GAS BURNERS FOR INCUBATORS.....50c

We can furnish all popular sorts of eggs for setting. Per 100, \$8.00. 15 for \$1.50. Cash must accompany order for eggs.

CYPHERS POULTRY MEDICAL CASE



Cyphers Poultry Remedies represent an armament sufficiently complete for combating all the common diseases of poultry and checking at the start any threatened epidemic. Price of complete set of ten remedies, in cloth-covered case, postpaid, \$2.00; single vials, in strong, especially prepared mailing tubes, 25c each; postpaid, 27c each. In ordering separate vials state nature of case for which it is wanted.



CYPHERS POULTRY SURGICAL CASE.....\$1.50
CYPHERS POULTRY MEDICAL AND SURGICAL
CASE\$3.00



CAPONIZING SET

Price, in paper box...\$2.75
Price, in wood box... 3.00

X-RAY EGG TESTER

Used on ordinary hand lamp. Each, 25c.



X-Ray Egg Tester

Wall
Perch
Support.

LICE-PROOF PERCH SUPPORTS

Made of cast iron, and with ordinary care will last a lifetime. They are cheap in price, and if once tried will always be used. The oil cup is covered with cap to prevent an accumulation of dust. When the little cup is filled with oil or lice paint it is impossible for lice to pass from the roost to the droppings board. Price—Wall Supports, pair, 30c. Upright Supports, pair, 40c.

POULTRY SUPPLIES—Continued

WISDOM CHICK FOOD

Wisdom Chick Food consists of 6 different grains and is a properly-balanced, long-tested, scientific ration. It is a complete food for young chicks, no other grain ration being required or advisable. This food is guaranteed by us to be composed of sound and wholesome grains—no weed seeds, no by-products, no waste, no grits. It is granulated and mixed by special, patented machinery, and is always the same. Always reliable. 5 lbs., 15c. 10 lbs., 30c. 100 lbs., \$2.75.

CYPHERS DEVELOPING FOOD

As its name implies, this is a special dry grain mixture, intended for properly maturing chicks after they are ready to be weaned from chick food and to carry them along to the age when it is desirable to place scratching and laying mash before the pullets. It is properly balanced to supply the materials for the rapid growth of bone, muscle and feathers. It is the best food on the market for developing young stock for show purposes or the breeding pen, both in size and plumage, and also for hastening the growth of chickens that are being raised for market purposes. 5 lbs., 15c. 10 lbs., 30c. 100 lbs., \$2.50.

WISDOM SCRATCHING FOOD

Scratching food fills one of the most important requirements of the poultry raiser, if correctly prepared. It is not sufficient to provide grain to be thrown into the litter of a "henhouse." A scratching food, rightly made up, is composed of such a variety of grains, properly balanced, as will meet a range of conditions extending throughout the year, including the laying and breeding season, the moulting period, etc. 5 lbs., 15c. 10 lbs., 30c. 100 lbs., \$2.50.

SHORT CUT ALFALFA

Alfalfa contains more protein than any other plant in general use as food, and if properly cured and pure it is cheaper. In other words, protein, the most valuable "content" of poultry foods, when bought in the shape of Alfalfa, is low in price; but the Alfalfa you use should be of good quality, free from weeds, grasses, etc., and should be pea green when moistened. Alfalfa must be properly cured and should be cut or ground immediately thereafter, otherwise it loses much of its nutritive value. 5 lbs., 15c. 12½ lbs., 30c. 100 lbs., \$2.25.

WISDOM LAYING MASH

To secure a large yield of eggs, the fowls must be given an ample amount of strongly nutritious food that contains, in proper proportions, all the material needed for egg making. It was the object of supplying these materials and thus inducing the hens to lay more eggs that Wisdom Laying Mash was developed, based on years of experimenting. 5 lbs., 15c. 10 lbs., 30c. 100 lbs., \$2.50.

HIGH PROTEIN BEEF SCRAPS

Gives in soluble form the animal food which cannot otherwise be obtained. It causes rapid growth in chicks, assists in securing a heavy egg yield and helps the birds during moulting. 5 lbs., 20c. 10 lbs., 35c. 100 lbs., \$3.25.

CHARCOAL

Aids digestion and promotes health of chicks to a wonderful extent. No poultryman can afford to be without it. Specially prepared and guaranteed pure. Fine, medium and coarse, lb., 5c. 5 lbs., 15c. 100 lbs., \$2.00.

GRANULATED BONE

Made from fresh, clean bones. No chemicals being used to prepare it, makes it perfectly sweet and safe to feed. 5 lbs., 20c. 10 lbs., 35c. 50 lbs., \$1.50. 100 lbs., \$2.50.

FINE GROUND BONE

Same as above, except that it is ground much finer. 5 lbs., 20c. 10 lbs., 35c. 50 lbs., \$1.50. 100 lbs., \$2.50.

MICA GRIT

Very essential for poultry, as it helps digest the food, acting about the same as teeth to grind the food. Fine, medium and coarse. 5 lbs., 10c. 10 lbs., 15c. 100 lbs., 60c.

CRUSHED OYSTER SHELL

Aids digestion, as well as supplying the lime necessary for egg production. Fine and coarse. 5 lbs., 10c. 10 lbs., 15c. 100 lbs., 50c.

We carry on hand at all times a full line of feeds, such as Cracked Corn, Corn Chop, Wheat Bran, Middling, Gluten Meal, Cotton Seed Meal, Rolled Oats, Oat Groats, Oatmeal, Whole Oats, Rice, Cracked Rice, Sunflower Seed, Kaffir Corn, Canada Field Peas, Millet, etc.

As the above are subject to market changes, can only quote prices on application.

SAVE-AL—Is easy to use and is absolutely safe and sure. One gallon makes sufficient solution to keep 65 dozen eggs in perfect condition for 10 months. Eggs preserved in Save-Al are superior in every way to limed eggs. The solution has been thoroughly and carefully tested, and critical observers found it difficult to detect the difference between a fresh-laid egg purchased in the open market and eggs which had been put down in Save-Al from 6 to 10 months. We recommend the use of Save-Al to all who desire to Save Money by Preserving Eggs When Cheap and to Have Plenty for Use when they are Scarce and High-Priced. Save-Al is never sold in bulk. Prices: 1 gal., weight 17½ lbs., \$1.00. 2 gals., \$1.85. 3 gals., \$2.50. (By freight or express.) Special prices on 10, 20 and 50 gal. casks.



SANITARY GRIT AND SHELLS BOX

Cyphers Grit and Shells Box. Made by special stamping machinery out of the best grade of galvanized iron. It has three compartments—for grit, shell and charcoal. Price, 50c.

Sanitary Chick Servers. For supplying food and water to small chicks. Price, 25c each. \$2.65 per dozen.

POULTRY LEG BANDS AND PUNCHES

Climax Leg Band. Brass-wire band; aluminum tag, numbered from 1 to 100. 12, 15c. 25, 25c. 50, 40c. 100, 75c.



DOUBLE CLINCH BAND

Double Clinch Bands. Very extensively used and give good satisfaction. Made of aluminum, in 2 sizes, in numbers from 1 to 100. 12, 15c. 50, 35c. 100, 65c.



Climax Leg Band

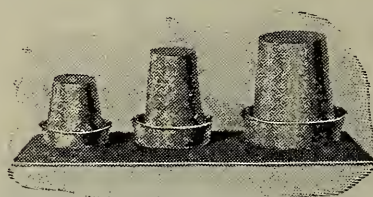
Leader Adjustable Aluminum Band. Made in 2 sizes and numbered from 1 to 100. 12, 15c. 50, 35c. 100, 65c.

PHILADELPHIA POULTRY MARKER

For marking young and old chickens. Made in 2 sizes. Each, 25c.



CYPHERS SEPARABLE DRINKING FOUNTAINS

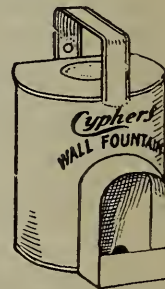


Made of heavy galvanized iron by the use of steel dies. Separable and easily cleaned. Perfectly sanitary and will last a lifetime.

Small size, 18c. Medium size, 25c. Large size, 35c. Special Duck size, 50c.

CYPHERS WALL FOUNTAINS

Are flattened at the back so that they can be hung on the wall of a building or against a post. A galvanized hood projects over the water trough and protects the water from becoming soiled. 1-gal. size, 50c. 2-gal. size, 75c.



STONE FOUNTAINS

1 pt., 20c. 1 qt., 25c. 2 qts., 35c. 4 qts., 50c. 8 qts., 75c.

BOXES FOR FRESH EGGS FOR THE MARKET TRADE

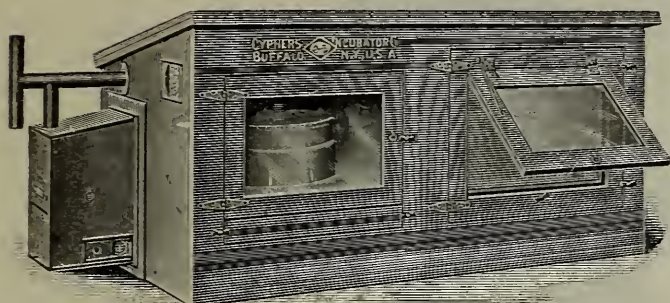
This is not a Parcel Post or Express Box, but is intended for counter and private use. Any one selling eggs will find this box a great convenience, as it obviates any mistakes in the count and also avoids any breakage.

Eagle Egg Boxes, three rows for 12 eggs, per 100.....60c

Prices on Eggs and Poultry Stock Cheerfully Quoted.

POULTRY SUPPLIES—Continued CYPHERS COMBINATION BROODERS AND COLONY HOUSES

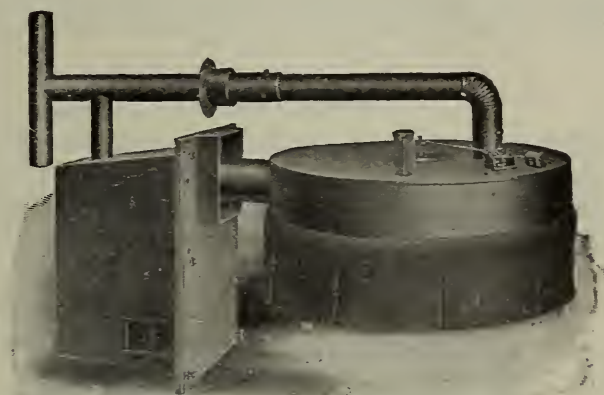
Fireproofed—Insurable. Refuse every Brooder that has no label.



Style B—Outdoor Brooder

Special attention is called to the substantial wooden cases of the Cyphers Outdoor Brooders. They are built on the Colony House plan, and each size can be used to advantage as a Colony Rosting Coop. The adaptable Hover that is used complete in every Cyphers Oil-Heated Brooder is readily removable, leaving the entire interior for use of growing chicks. Heavier and better materials are used in these Brooder Cases than in lower priced goods. Each one is built throughout of inch-thick dressed white pine lumber, including the floor. Every case is built in panels, and all joints are substantially made. When set up, the roof is held in position with screw hooks and screw eyes that are located on the interior, away from the weather.

Cyphers Adaptable Hover, capacity 75 to 100.....	\$ 8.50
Cyphers Style A 1910 Outdoor, capacity 75 to 100.....	12.50
Cyphers Style B 1910 Outdoor, capacity 100 to 125.....	16.50
Cyphers Style C 1910 Outdoor, capacity 100 to 125.....	18.50
Cyphers Style D 1910 Indoor, capacity 75 to 100.....	11.50



Cyphers Adaptable Hover

STANDARD CYPHERS INCUBATORS BUILT TO LAST—DURABLE

Cyphers Incubators are built to hatch and to last. With proper care—the same care you would give a valuable piece of household furniture—a Standard Cyphers will last an ordinary lifetime. They are guaranteed by us to last ten years without repairs. We make this guarantee because they have lasted much longer than this—and are still doing first-class work.

Incubators that were made and sold ten, twelve and fifteen years ago are still in use, and still valued highly—are regarded today by the fortunate owners as being "good enough for anybody." It is a fact that many owners of Cyphers Incubators would refuse to exchange them for brand new machines of any other make on the market. We know this to be true. In numerous cases poultrymen who have bought secondhand Cyphers Incubators have written us that they would rather own and use these second-hand machines than new ones of other makes, judging by a comparison of the results obtained by them and by neighbors who were using the other kinds.

The Cyphers is the logical Incubator for the poultryman who has reached success. It also is the logical Incubator for the man, woman, boy or girl who is beginning in the work, and who plans to get out of poultry keeping the most there is in it.

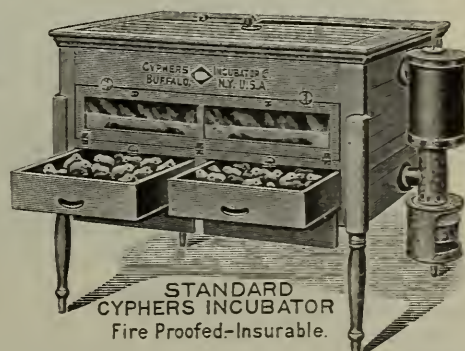
Its perfected construction—after sixteen years in practical use in all countries, in all latitudes, under widely varying conditions—its patented features, its freedom from the "bothers," disappointments and losses that are common to the "cheap Incubator," make it the best machine for the beginner to own, first, last and all the time.

PRACTICALLY PERFECT REGULATION

The device used on Cyphers Incubators for regulating the temperature in the hatching chamber is a marvel of sensitiveness and reliability. No other style of Incubator regulator has been devised that is its equal in the essential points. Sensitive and positive in action, this thermostat, with its mechanically perfect attachments, can be fully relied upon to do its work.

Briefly stated, the three elements of chief importance in Incubator regulation are: First, a sensitive thermostat, one that will regulate the temperature of a hatching chamber to a fraction of a degree. Second, ease and simplicity of adjustment. Third, a device so well made in all parts that it will not lose its efficiency with age.

Read the many testimonials in the big, free, 156-page Catalogue.



STANDARD
CYPHERS INCUBATOR
Fire Proofed—Insurable.

PRICE LIST FIREPROOFED—INSURABLE

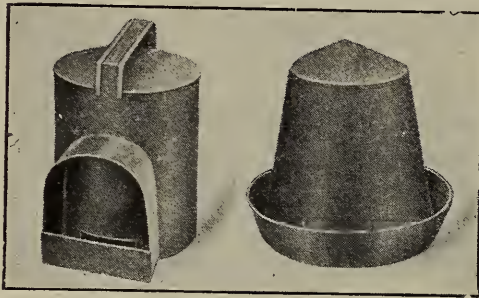
No. 0—Capacity, about 70 Hen Eggs, 56 Duck Eggs..	\$15.00	No. 2—Capacity, about 244 Hen Eggs, 200 Duck Eggs..	\$34.00
No. 1—Capacity, about 144 Hen Eggs, 112 Duck Eggs..	23.00	No. 3—Capacity, about 390 Hen Eggs, 300 Duck Eggs..	40.00

Write for Special Brooder and Incubator Catalogue.

POULTRY SUPPLIES—Continued

H-I DRINKING FOUNTS AND FEEDERS

2-PIECE DRINKING FOUNTS

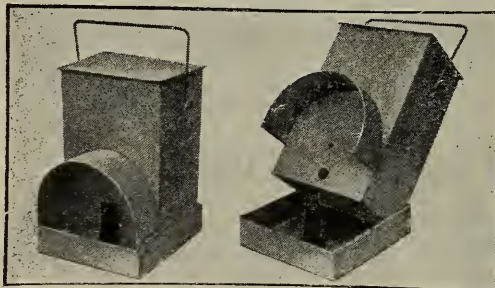


Black iron, galvanized after fount has been completed. This assures a smoother, better-looking fountain and keeps the edge at the top from rusting. When the galvanizing is done first, turning the edge cracks it and makes it liable to rust. Small, 20c. Medium, 25c. Large, 40c.

WALL FOUNTS

Three sizes—1 quart, 1 gallon, and 2 gallons. All have hoods over the troughs, which prevent dirt from settling in the water. Can be hung up on the wall, and for this reason are preferred by many to the 2-piece fount, which must be placed on the floor. The 1-gallon and 2-gallon sizes have flat backs to hold them firmly against the wall when they are hung. 1 qt., 30c. 1 gal., 50c. 2 gal., 75c.

SQUARE DROP-BOTTOM DRINKING FOUNTS



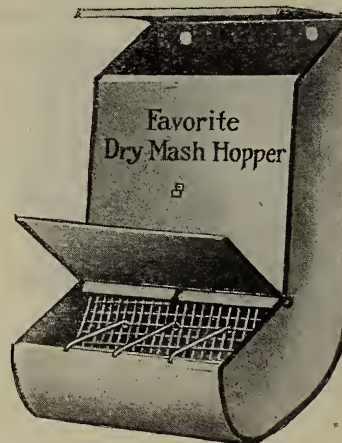
These drop-bottom drinking fountains are new; they are made of No. 28 gauge galvanized steel. The bottom can be swung open with one hand, as it is secured by one spring in the front, while most fountains have a spring on each side and therefore require both hands to open them, which is even then done with more or less trouble. The rod which extends through the hinge of the drop bottom is made of solid brass, which prevents all possibility of rusting or breaking off. This hinge will preserve the life of the fountain. 2 qts., 45c. 1 gal., 60c. 2 gals., 80c.

WALL CHICK FEEDER



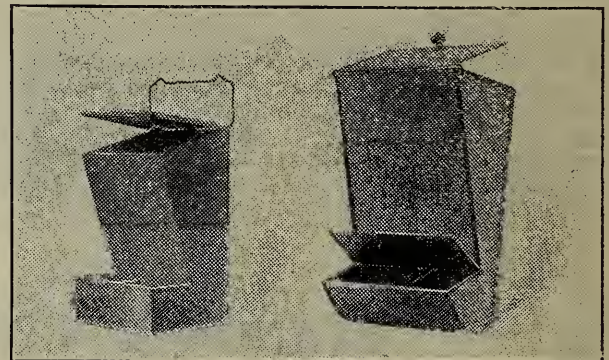
The sloping top prevents the chicks from roosting on it, and a wire screen, and lip on the front of feed trough, prevents them from wasting the feed. May be hung on wall at any height convenient to age of growing chicks. Two sizes, 10 inches long and 20 inches long, made of 28 gauge galvanized steel. Absolutely will not rust, for all reinforced turned edges are carefully painted green. The depressed ends also add to the life and durability of the feeder. This is an entirely new invention, and has proved its worth and efficiency among the largest chick raisers in the world. Ten inch, 50c. 20-inch, 75c.

ROUND-BOTTOM DRY FOOD HOPPER



The round bottom of this food hopper will feed dry mash or beef scrap more readily and cannot clog. Because of this feature it is more sanitary and more acceptable. This hopper has a lid, so that it may be closed during the forenoon, which is generally desired by poultrymen. Price, 75c.

STRAIGHT-FRONT DRY FOOD HOPPER



Having a perfectly straight front, the feed positively cannot clog. There is a lip in front, and iron bars to prevent the fowls from wasting the feed. Price, 70c.

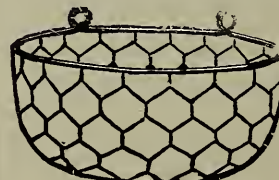
ROUND-BOTTOM GRIT AND SHELL BOX

Most grit and shell boxes have square bottoms, while this grit and shell box has a round bottom, which prevents the fine particles of shell and grit clogging the corners. Can be set on floor, or hung on wall, as desired. An H-1 winner for 50c.

RECTANGULAR GRIT AND SHELL BOX

Owing to the construction of this grit and shell box, it is preferred by many because the dust and straw cannot get into the trough as readily as in some other styles. Ready for use, 40c.

WIRE HEN'S NEST



Wire Hen's Nest

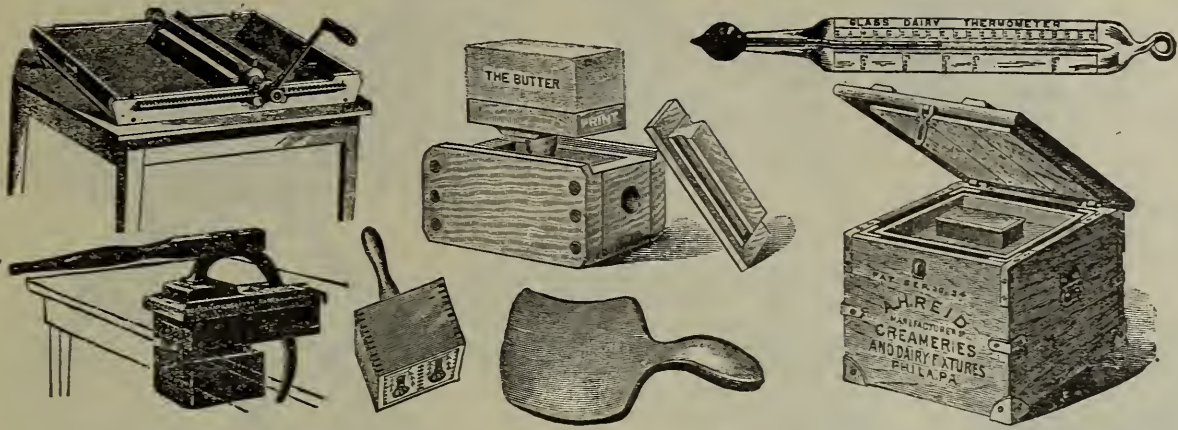
Strongly made, of heavy copper-plated wire, 1½-inch mesh, and will last a lifetime. There is no room on them for lodgment of lice or vermin of any kind. Price, each, 15c. Doz., \$1.50.

O. K. POULTRY LITTER

THE O. K. POULTRY LITTER is a fibrous substance to be used on the floor of the poultry house. It absorbs all moisture and keeps the house dry and clean. As a litter for feeding floors, it will be found much better than anything else you could use, as you are always sure of a dry floor, and at the same time you will not be bothered with dust. It is very economical to use, as a floor once laid will last about six months. After cleaning it out of the house you will find it a valuable fertilizer, as it will have sufficient chicken manure in it to spread over quite a large area. Price, per bale, \$2.50.

Prices of Eggs and Poultry Stock Cheerfully Quoted.

DAIRY SUPPLIES



REID'S BUTTER WORKER

(Fig. 1.)

This machine acts on the butter on precisely the same principle as a ladle in the hands of a person, but with perfect uniformity and without injuring the grain. Made of the best material; iron parts galvanized, preventing rust.

No. 1—Capacity 50 lbs. or less.....	\$8.00
No. 2—Capacity 30 lbs. or less.....	6.40
No. 3—Capacity 20 lbs. or less.....	5.60
No. 4—Capacity 10 lbs. or less.....	4.80

MILK CANS

Baltimore Pattern, Railroad Milk Cans.—

Baltimore Pattern, Railroad Milk Cans—Our regular stock can. Made of strong, very best material; straight neck, drop handle. 12 qt., \$3.75. 20 qt., \$3.25. 30 qt., \$3.75. 40 qt., \$4.25. Name plates on can, 25c each.

MILK PAILS

Made of the best bright charcoal tin; strong and durable, with special bottom, which is a good feature. 12 qt., 60c.

BUTTER SHIPPING BOXES

(Fig. 7.)

Made of well seasoned lumber, iron-bound edges and capped corners. The strongest package ever offered to shippers, and very convenient.

Capacity	Price
24 ½-lb. prints.....	\$4.00
36 ½-lb. prints.....	4.50
64 ½-lb. prints.....	5.25
80 ½-lb. prints.....	5.50
100 ½-lb. prints.....	6.00
120 ½-lb. prints.....	6.50
140 ½-lb. prints.....	7.00
12 1-lb. prints.....	3.50
20 1-lb. prints.....	3.75
30 1-lb. prints.....	4.25
40 1-lb. prints.....	4.75
56 1-lb. prints.....	5.00
80 1-lb. prints.....	5.50
96 1-lb. prints.....	5.75

WELLS, RICHARDSON & CO.'S BUTTER COLOR

The best Butter Color on the market. Small bottle, colors 500 lbs., 25c. Large bottles, 50c. and \$1.00.

DE LAVAL DAIRY HANDBOOK

Contains the Following

Dairying For Profit. By Prof. John Michels.
Maintaining Soil Fertility on the Dairy Farm. By Prof. Elmer O. Fippen.
Proper Dairy Feeding and Balanced Rations. By Prof. Hugh G. Van Pelt.
Alfalfa, the Wonderful. By Hon. F. D. Coburn.
Legumes for the Dairy. By Prof. C. W. Burkett.
The Silo and Silage. By Chas. S. Plumb.
A Few Diseases of the Dairy Cow and Their Proper Treatment. By Dr. A. S. Alexander.
How to Judge a Dairy Cow. By Hugh G. Van Pelt.
Some Requisites for a Sanitary Dairy Barn. By Prof. John C. Kendall.
Ventilation of Dairy Barns. By F. H. King.
Fully Illustrated—Free for the Asking.

MISCELLANEOUS DAIRY SUPPLIES

Parchment Butter Paper—In sheets 24x36 in., or cut for 1-lb. and ½-lb. prints. Price, 20c per lb. Special price on quantities.

Lafayette Butter Printer—(Fig. 4.) Either 1-lb. or ½-lb. size, with table, \$15.00. Without table, \$10.00. \$1.50 for monogram or initials.

Philadelphia Print—(Fig. 3.)—1 lb., \$1.50. ½ lb., \$1.00.

Floating Dairy Thermometer—(Fig. 2.)—25c and 50c.

Maple Print—Seeley—(Fig. 5.)—½-lb. size, 60c. 1-lb., size, 75c.

Handmade Print—½-lb. \$1.00. 1-lb., \$1.50.

Butter Paddles—(Fig. 6.)—10c to 40c.

Polished Maple Bowls—15 in., 25c. 17 in., 40c.

Freeman's Brick Butter Mold—Made with lock corners, from thoroughly seasoned timber. Perfect fitting. Hand carved, assorted designs. 35c each.



RICE'S CALF WEANER

Very effective for weaning calves and preventing cows sucking themselves.

No. 1, for calves, 25c; by mail, 30c. No. 2, for heifers, 40c; by mail, 46c. No. 3, for cows, 60c; by mail, 80c.

SHAW'S CALF AND COW WEANER

The only successful Weaner in the world. Over 100,000 now in use. The animal this Weaner is put on can positively not suck, but at the same time it is no inconvenience to it to feed. Stop at our store and see it demonstrated. Price, No. 1., 25c. No. 2. 35c. No. 3, 50c.

STAR COOLER CREAM SEPARATOR

Made in the very best manner. The inner can is for milk and the outer can for water. The single Separator has 1 milk can and the double Separator has 2 milk cans. Inner cans can be readily taken out for cleansing. There is nothing better on the market. The outer cans are painted and decorated.

No. 000—Capacity, 1 cow, 14 quarts milk.....\$3.75

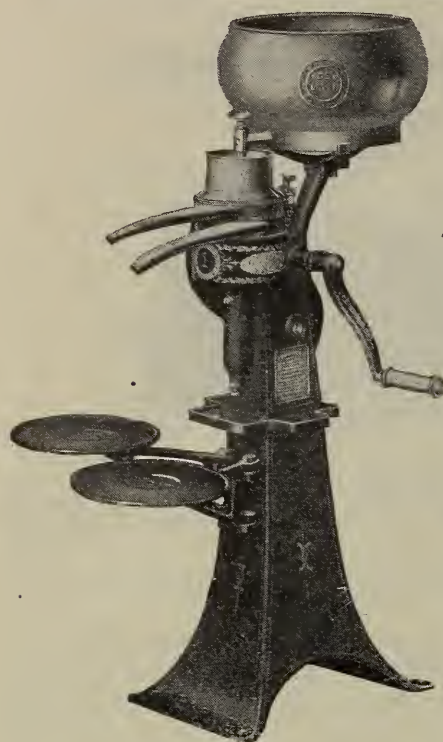
No. 00—Capacity, 1 to 2 cows, 20 quarts milk.\$4.25



OX BALLS—Made of brass. Per pair.....25c
BULL RINGS—Copper, 2½ inch.....35c 3 inch.....40c
HOG RINGS—Each.....15c
HOG RINGS—Hundred.....10c
PIG RINGS—Hundred.....10c

All Prices Subject To Change Without Notice

DE LAVAL CREAM SEPARATORS



The De Laval Cream Separator separates cream from milk more quickly, cheaply and profitably than can be accomplished by any other method.

It is an extremely well-made piece of machinery and exceedingly simple to operate. Its work is done as soon as possible after milking. The process is continuous and the separation instantaneous.

A De Laval will give you at least 10 per cent more cream than any deep-setting system with ice, and without ice 20 per cent more; and in either it will increase the value of your butter from 2 to 5 cents per pound.

Large Variety of Sizes and Styles

The improved De Laval machines are all of the original "Split-Wing" "Alpha-Disc bowl type, with latest patented features. Their frames are of especially handsome design and much superior in every way to former De Laval styles. The machines are all extremely easy and simple to operate, most easily assembled and taken apart, and of latest design and construction throughout, with all gearing amply protected.

The hand-power sizes are equipped with drip shelves and adjustable shelves for the cream and skim-milk receptacles, excepting the Improved Nos. 22, 17 and 15, which have only the cream receptacle shelf, it being more practical, on account of the large capacity of these machines, to set a can on the floor for the skim-milk.

Hand Power Dairy Sizes

No. 22—Actual capacity, 1,350 lbs. per hour.....	\$160.00
No. 17—Actual capacity, 900 lbs., per hour.....	110.00
No. 15—Actual capacity, 675 lbs. per hour.....	90.00
No. 12—Actual capacity, 450 lbs. per hour.....	75.00
No. 10—Actual capacity, 335 lbs. per hour.....	65.00
No. 5—Actual capacity, 200 lbs. per hour.....	50.00
No. 4—Actual capacity, 135 lbs. per hour.....	40.00

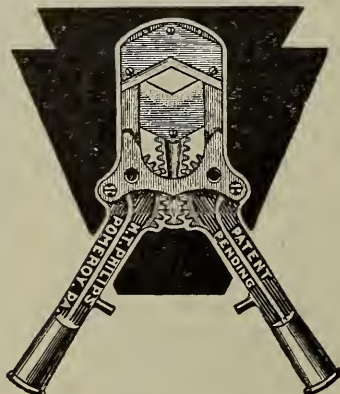
Steam Turbine Dairy Sizes

No. 25—Actual capacity, 1,350 lbs. per hour.....	\$175.00
No. 20—Actual capacity, 900 lbs. per hour.....	125.00
No. 19—Actual capacity, 675 lbs. per hour.....	100.00

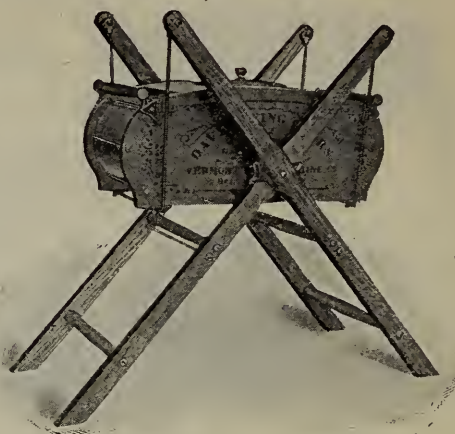
KEYSTONE DEHORNING CLIPPER

The practice of dehorning cattle is coming more into vogue. It is a mercy to the animals. Prevents goring. The blades on the Keystone are made of best steel. No twisting motion or second cut on horn. Parts are all interchangeable, and can be replaced. It is approved by veterinary surgeons and leading dairymen. The horns must go, and they cannot go too soon.

Clipper, with leader and rope, extra blades and screw, fully warranted. Price, \$12.00. Clipper alone, price, \$10.00.



DAVIS SWING CHURN

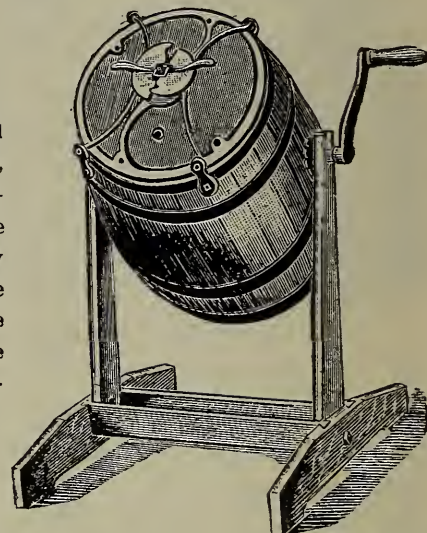


The finest Churn on the market. Has no floats or dashers; easy to clean, very easy to operate. Makes fine butter.

No. 1—Churns 4 gallons.....	\$ 8.00
No. 2—Churns 5 gallons.....	9.00
No. 3—Churns 8 gallons.....	10.00
No. 4—Churns 10 gallons.....	12.00
No. 5—Churns 13 gallons.....	15.00

THE MAGIC BARREL CHURN

Made from selected quartered white oak, with an improved device for fastening the top. This is a very popular Churn. The churning capacities are stated below, and are one-half the actual capacity.



No. 0—Churns 3 gallons.....	\$ 5.00
No. 1—Churns 4½ gallons.....	5.50
No. 2—Churns 7 gallons.....	6.00
No. 3—Churns 9 gallons.....	6.75
No. 4—Churns 12 gallons.....	8.50
No. 5—Churns 16 gallons.....	10.00

IMPROVED CEDAR CYLINDER CHURN

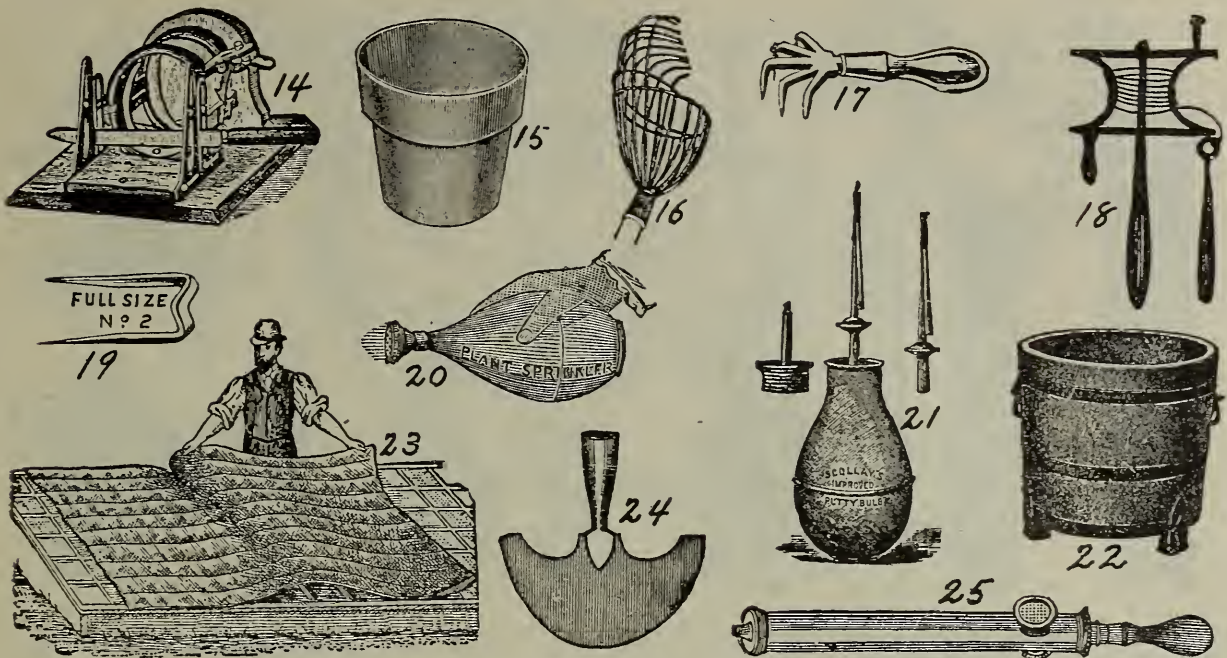


No. 1—2½ gals.....	\$2.50
No. 2—4 gals.....	3.00
No. 3—7 gals.....	3.50
No. 4—10½ gals.....	4.00

THE BABCOCK TESTER

No. 4-2 Bottle size for milk only.....	\$4.25
No. 5-2 Bottle size for milk and cream.....	4.75
No. 6-4 Bottle size for milk only.....	5.25
No. 7-4 Bottle size for milk and cream.....	5.75
Shipping weight about 17 pounds.	

Write for Special Separator Catalogues.



HOTBED SUPPLIES

Best White Pine Sash—Made to hold either 24 or 28 8x10 panes. Those Sashes are grooved so that the panes slide in and butt one against the other. Price of either size, 90c each.

Hotbed Glass—8x10 per box of 90 panes, \$2.25.

Hotbed Mats—(Fig. 23)—Interlined with wool. 40x76 size, covers 1 sash, \$1.75. 76x76, covers 2 sash, \$2.50. Special prices by dozen.

Plantbed Cloth—Light, 7c per yard; by the bale, 6c. Medium, 9½c per yard; by the bale, 8½c. Heavy, 13½c per yard; by the bale, 12½c. A bale contains about 60 yards.

Marlin—For making straw mats. 5 lbs., 90c.

Twemlow's Old English Glazing Putty—Semi-liquid and elastic. For bedding glass in sash, or for filling cracks or seams in roof joints or frames of green houses or hotbeds. Applied with machine, bulb or brush. This Putty is ground in pure linseed oil and will stay on. 1-gal. can, \$1.40.

Putty Bulbs—(Fig. 21.)—Scollay's, \$1.00.

Van Reyper's Glazing Points—(Fig. 19.)—Simple and positive, no rights or lefts. Per 1000, 60c; by mail, 75c. Pincers, 50c per pair; by mail, 60c.

Asparagus Buncher—(Fig. 14.)—\$2.25.

Asparagus Knife—Solid steel blade, 30c.

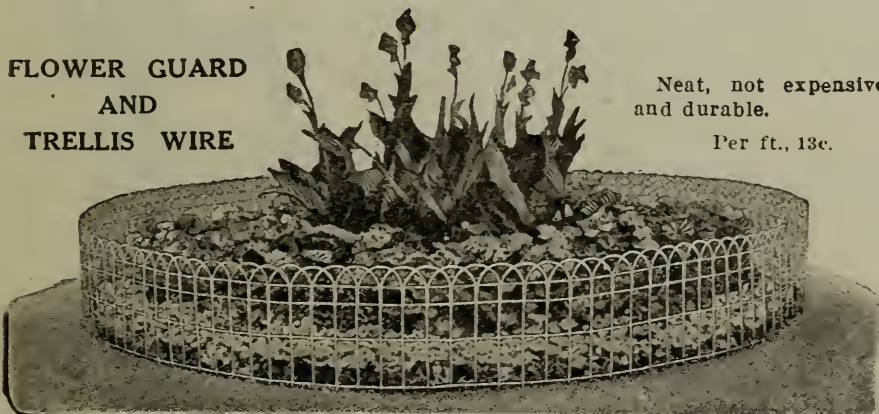
BASKETS

Picking Baskets—½-bu. size. Price per dozen, without handles, \$1.75. With bow handles, \$2.25. Drop handles, \$2.50.

White Oak Baskets—Side-handled, 1 bu., 75c each.

Rattan Baskets—With side handles, very strong. 1-bu. size, 90c. 2-bu. size, \$1.25.

Corn Barrels—With handles, \$5.00.

FLOWER GUARD
AND
TRELLIS WIRE

Neat, not expensive,
and durable.

Per ft., 13c.

BRASS GARDEN SYRINGES

(Fig. 25.)

No. A—One Spray Rose and Jet—12x1 in. barrel, \$2.00.

No. 2—Open Roses, Two Spray Roses and Jet—Side attachments, 14½x15/16 in., \$3.75.

No. 5—Cone Valves, Two Spray Roses and Jet—Side attachments, 18x1½ in., \$6.25.

Hand Sprinklers—(Fig. 20)—Rubber bulb, with metal spray head. Small, 75c. Large, \$1.00.

Fruit Picker—(Fig. 16)—The best style, 25c.

Edging Knives—(Fig. 24.)—8 in., English, \$1.15. 9 in., \$1.25. Handled American Edger, 50c.

Fodder Yarn—Prices on application.

White and Yellow Pine Garden Boxes—Prices on application.

Garden Reels—(Fig. 18.)—75c and \$1.00.

Excelsior Hand Weeder—(Fig. 17.) 10c.

Eureka Hand Weeder—Very useful and strong, 25c.

Raffia—For tying plants. Per lb., 20c.

Tree Tubs—(Fig. 22.)—Cypress, painted green, iron bound and iron feet. No. 1, 13 in., \$1.00. No. 2, 14 in., \$1.25. No. 3, 16 in., \$1.50. No. 4, 19 in., \$2.00. No. 5, 21 in., \$3.00.

Tubs—Less feet and handles. A, 8 in. diameter, 45c. B, 11 in. diameter, 50c. C, 11 in. diameter, 65c. D, 12 in. diameter, 85c.

FLOWER POTS

(Fig. 15.)

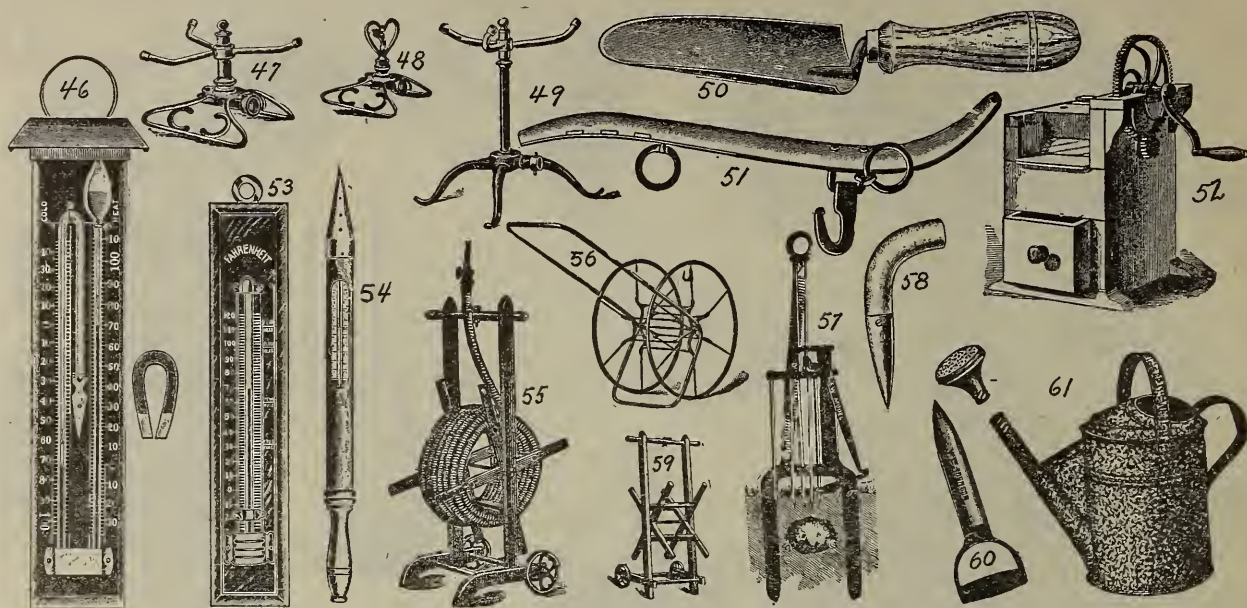
3 in., per hundred.....	\$1.00	per thousand.....	\$ 7.50
3½ in., per hundred.....	1.25	per thousand.....	9.00
4 in., per hundred.....	1.50	per thousand.....	12.00
5 in., per hundred.....	3.00	per thousand.....	22.00

MAGIC E-Z" WEEDER



Light in weight. Strong in construction. An excellent tool. Three tines. Made of No. 8½ steel wire. Nicely trimmed. Black enameled handle.

Prices—Small, 10c each. Large, 15c each.



THERMOMETERS

Registering Thermometer (Fig. 46).....	\$2.25
8-in. Wood Back Thermometer (Fig. 53).....	.50c
Hotbed Thermometer (Fig. 54).....	\$1.00 and \$1.75
Distance Reading Thermometer.....	.25c
8-in. Tin Mercury Thermometer.....	.15c
Incubator Thermometer.....	.65c
Brooder Thermometer.....	.50c
High-grade Cottage Thermometer.....	\$1.00

LAWN SPRINKLERS

Wolverine—(Fig. 49).—One of the best on the market; 15 in. high, \$1.50. 24 in., high, \$2.50. 36 in., high, \$3.00.
Ring Sprinkler—Made of heavy brass. Makes a mist-like spray, each, 75c.

GARDEN HOSE AND REQUISITES

(Fig. 55)
 We carry in stock a full line of Garden Hose, 3 and 4 ply. Prices range from 8c to 20c per foot. We invite your inspection.
 Iron Hose Reel (Fig. 56).....\$2.50
 Wood Hose Reel (Fig. 59).....\$1.00
 Hose Couplings.....pair, 30c. Each, 15c
 Hose Clamps, $\frac{1}{2}$ in. and $\frac{3}{4}$ in.....Doz., 40c
 Combination $\frac{3}{4}$ -in. Hose Nozzle.....40c
 1-in. Brass Nozzle......85c

HAMES AND STRAPS

Iron Bound Hames (Fig. 51), pair.....	.75c
London Patent Hames, pair.....	\$1.00
Taylor Root Hames, pair.....	.75c
Hame Straps, each.....	.20c
Hame Strings, $\frac{3}{4}$ -in. Rawhide, each.....	.10c

HORSE RADISH GRATER

(Fig. 52)

With Tin-clad Cylinder.....	\$7.00
With Steel Pin Cylinder.....	\$8.00

GALVANIZED WATER POTS

With Adjustable Nozzles

4 quart.....	45c
6 quart.....	55c
8 quart.....	60c
10 quart.....	75c
12 quart.....	80c
16 quart.....	\$1.15
20 quart.....	1.40

GARDEN TROWELS

English Wrought Shank, 6 in. (Fig. 50).....	.40c
8 in.....	.50c
Florist Trowels, Stamped Steel, 6 in.....	.25c
Cheaper grade.....	.10c
Plaintain Trowels, No. 2, 5-in. Blade.....	.15c
No. 1, 8-in. Blade.....	.25c
Wood Handle Dibble (Fig. 58), Steel Point.....	.35c
Iron Handle Dibble (Fig. 60), Steel Point.....	.50c

MOLE TRAPS

New Model—The best on the market; made entirely of steel and iron; very compact, \$1.75.

Out-o'-sight—Convenient to use in hotbeds, 75c.

STABLE ACCESSORIES

Canvas Back Bands—Heavy and full length, with leather loop, 75c. With patent snap, 60c.

Trace Chains—Extra long, strong and durable, pair, 75c.

Cow Chains—For tying out in fields; 20 feet long, 75c. 30 feet long, \$1.00.

Stable Cow Ties—Each, 25c.

Breast Chains—Double, pair, 75c. Single, pair, 60c.

Plow Lines—Cotton, pair, 50c. Sisal or Hemp, pair, 40c.

Curry Combs—8 Bars Steel, 25c. Cheaper, 15c.

Horse Brushes—Leather back, 40c to \$2.50.

Stable Push Brooms—Rattan and Bass, 60c.

MANN'S GREEN BONE CUTTER

(Latest Model)

The feed is both automatic and self-governing. Cuts all gristle and meat. Nothing escapes uncut.

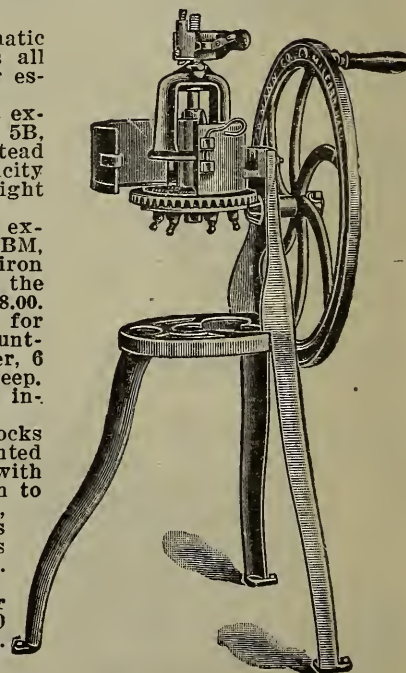
No. 5C—This machine is exactly the same as the No. 5B, with a crank handle instead of a balance wheel. Capacity not quite equal to 5B. Weight 35 lbs. \$6.00.

No. 5B—This machine is exactly the same as No. 5BM, except that it has not the iron stand. The capacity is the same. Weight, 60 lbs. \$8.00.

No. 5BM—Intended for flocks of 15 to 25 hens. Mounted on iron stand. Cylinder, 6 inches diameter, 4 inches deep. Cutter plate has 4 knives instead of 3. \$10.40.

No. 7—Intended for flocks of 40 to 100 hens. Mounted on strong iron stand with large table for box or pan to receive cut bone. Weight, 107 lbs. Cylinder $7\frac{1}{4}$ inches in diameter, $5\frac{1}{4}$ inches deep. Capacity, $\frac{1}{2}$ to 1 lb. per minute. \$12.00.

No. 11—Intended for large flocks of over 100 fowls. Capacity, 100 lbs. per hour. Horse power required, 1 to $1\frac{1}{2}$. Weight, 215 lbs. Diameter of pulley, 15 inches. $3\frac{1}{2}$ inch face. Speed of pulley, 300 to 350 revolutions per minute. Capacity, 100 lbs. and upward per hour. \$26.00.



All Prices Subject To Change Without Notice



GRASS HOOKS

"Blue Ribbon" Grass Hook—(Fig. 43) 35c.

Grass Hooks—(Fig. 2) English, 40c and 50c. German, 30c.

HAY KNIFE, CORN KNIVES AND HOOKS

Lightning Hay Knife—(Fig. 45.)—90c.

Corn Knives—Straight, concave or convex edge, 25c to 50c.

Corn Hooks—35c each.

SCYTHES, SNATHES AND SCYTHE STONES

English Waldron Scythes—30 in., \$1.30. 36 in., \$1.50. 38 in., \$1.65. 40 in., \$1.75.

Peace's Riveted Back Scythes—Imported. Very keen cutter. 36 in., \$1.20. 38 in., \$1.30. 40 in., \$1.40.

38-40 In. Clipper Grass Scythe—80c.

American Weed Scythes—(Fig. 41.) 90c. Bramble, 75c.

Scythe Stones—English, 20c. Darby Creek, 10c.

Snathes—(Fig. 41.) Patent Grass, 75c. Heavy two-ring Bush Snathes, 75c.

GRAIN CRADLES

Handmade, four-fingered Cradle, with English blade, \$5.00. With American blade, \$4.25.

Cradle Blades—English, \$1.80. American, \$1.00.

HEDGE, PRUNING AND BORDER SHEARS

Solid Steel Imported Hedge Shears—(Fig. 5.)—The celebrated English Shears. 10 in., with notch, \$2.00. 9 in., with notch, \$1.75. 8 in., with notch, \$1.50. All 25c less without notch; the notch is very useful in heavy trimming or lopping.

No. 1. "Red Clipper" Draw Cut Pruning Shears—(Fig. 8.)—Made of best tool steel, hand forged, oil tempered. 25 in. handles, \$2.00. 22 in. handles, \$1.75.

No. 105 Border Shears—(Fig. 7.)—10 in., \$2.50. Without wheel, \$2.25.

Lopping-Shears—(English)—24 in. handles, \$2.50.

Lawn Shears—2 wheels, 8 in. blade, for cutting on narrow borders, under fences and shrubs, \$2.75.

PRUNING SAWS AND BUSH HOOKS

Double Pruning Saw—(Fig. 39.)—18 in., 70c. Single Saws, \$1.00.

Bush Hooks—(Fig. 40.)—75c. Extra heavy socket Hook, with knife back, \$1.25.

PRUNING SHEARS

8½ in. full polished German Pruner, \$1.50. 8½ in. half polished German Pruner (Fig. 1), \$1.00. 8½ in. japanned German Pruner, 85c. 8½ in. full polished German Pruner, brass spring, which never wears out, \$1.50. 8½ in. French Pruner (very good), \$1.25. 9 and 8 in., No. 1537, a good Pruner, 50c. 6 in. Ladies' Pruner, full polished, 75c. and \$1.00. 7 in. Grape Picker (Fig. 6), 35c.

Flower Gathering Scissors—Large and perfect; do not tire the hands, 90c.

TREE PRUNERS AND KNIVES

Henry's Improved—(Fig. 3.)—Open fork and down cut. 8 ft., \$1.00. 10 ft., \$1.10. 12 ft., \$1.25.

Waters'—(Fig. 4.)—The best known. 6 ft., 85c. 8 ft., 95c. 10 ft., \$1.00. 12 ft., \$1.10.

Budding Knives—Ivory handle. (Fig. 11.) \$1.25. Horn and Ivory. (Fig. 10.) \$1.00.

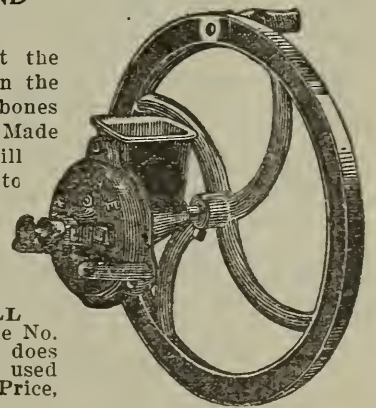
Pruning Knives—The best made. (Fig. 12) 75c.

Telegraph Tree Pruner—Without pole, \$1.00. Saw attached, \$1.50.

GRAFTING WAX—¼ lb., 10c. ½ lb., 20c. Lb., 35c.

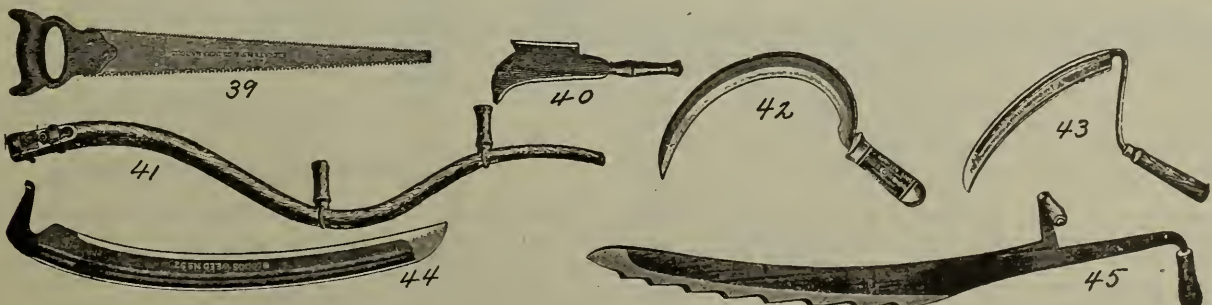
WILSON'S BONE AND SHELL MILL

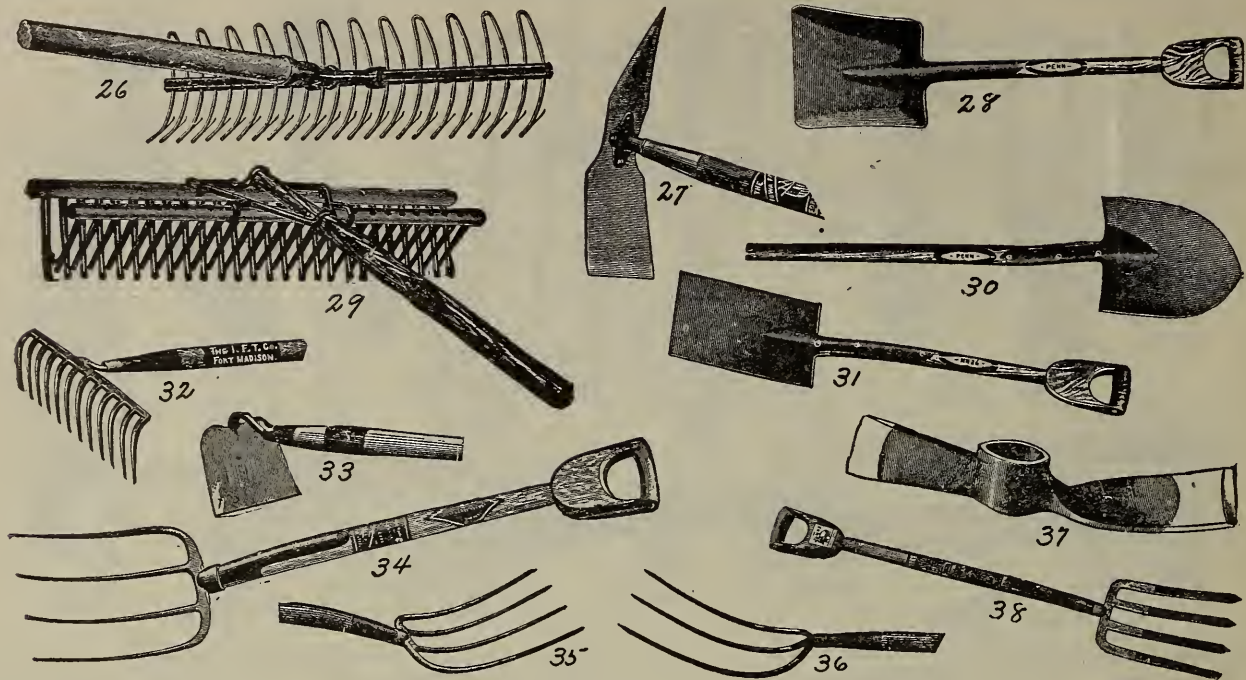
This is without a doubt the best Bone and Shell Mill on the Market. For grinding dried bones or shell it has no equal. Made strong and durable. A mill every poultryman ought to have. Price, No. 1, \$4.50.



WILSON'S GRAIN MILL

No. 0—Made similar to the No. 1 Bone Mill, except that it does not have the crusher and is used for grinding grain only. Price, \$4.50.





GARDEN, LAWN AND HAY RAKES

Self-cleaning Lawn Rake—(Fig. 29.) Readily cleaned by a back motion of the rake. Will not tear grass. 22-t., 60c. 26-t., 70c.

Lawn Queen Rake—(Fig. 26.) Steel head, with heavy steel wire teeth. Strong and durable. Reversible for leaves. 21 in. wide, 24-t., 50c. 21 in. wide, 46-t., 65c.

Superior Handmade Wood Lawn Rakes—The best of its kind; very substantial. 20-t., 35c.

Superior Handmade Hay Rake—20-t., 25c.

Steel Garden Rakes—(Fig. 32). 14-t., 55c

Malleable Garden Rakes—12-t., 30c.

Ole Olsen Rake—Very strong, durable wood. This rake head is slightly curved from the center to each end, which does not allow any material that has been caught by the teeth to slip around the edges. 26-t., 50c.

MANURE, HAY AND SPADING FORKS

No. 64. Manure Fork—(Fig. 34). \$1.65.

Long Handle Manure Fork—(Fig. 35.) 4½ ft. handle, 4 prongs strapped, 90c.

Long Handle Hay Forks—(Fig. 30)—2 prongs, 75c. 3 prongs, 85c.

D-Handle Spading Forks—(Fig. 38.) \$1.00.

We have a full line of handles in stock for Hatchets, Axes, Picks, Shovels, Forks, Saws, etc.

Red Warrior Axes—Excellent quality, 90c.

Red Warrior Axes—Complete, with handle, \$1.20.

Hatchets—High grade, 55c. Second grade, 40c.

Axe Handles—20c.

The "Beats the Grindstone" kind are the only practical grinders that sharpen tools and knives quickly, and do not glaze or draw the temper of the finest steel, because equipped with Aluminum Grinding Stone. No. 1a, price, \$2.50. Write for circular.

DIAMOND MESH WIRE

Galvanized after woven.

150 FEET IN ROLL

2-in. Mesh

12 in. high, No. 20 wire. Per roll.....	\$1.50
24 in. high, No. 20 wire. Per roll.....	2.50
36 in. high, No. 20 wire. Per roll.....	3.50
48 in. high, No. 20 wire. Per roll.....	4.50
60 in. high, No. 20 wire. Per roll.....	5.50
72 in. high, No. 20 wire. Per roll.....	6.50

1-inch Mesh.

12 in. high, No. 20 wire. Per roll.....	\$3.00
24 in. high, No. 20 wire. Per roll.....	6.00
36 in. high, No. 20 wire. Per roll.....	9.00
48 in. high, No. 20 wire. Per roll.....	12.00
60 in. high, No. 20 wire. Per roll.....	15.00

All Prices Subject To Change Without Notice

PICKS, MATTOCKS AND HANDLES

Picks—Best steel, 65c.

Mattocks—(Fig. 37.) Best, 85c. Good, 60c.

Pick and Mattock Handles—20c.

Ladies' and Children's Garden Tool Set—Consisting of Rake, Shovel, Hoe and Spading Fork. Made of first-class material. Not toys, but tools that will do and stand the work. Price, \$1.25.

SHOVELS AND SPADES

D handle, square point. Ames—(Fig. 38) Best No. 3, \$1.35. No. 4, \$1.50. 2nd grade, No. 4, 65c. No. 5, 70c.

Long handle, round point. (Fig. 30) Ames, \$1.35. Nelson, 75c. Boss, 75c.

Coal Scoops—D handle. No. 4, \$1.00. No. 5, \$1.25.

Spade—D handle. (Fig. 31) \$1.00. Ames, \$1.35.

GARDEN, PLANTERS AND SCUFFLE HOES

Solid Socket—(Fig. 33.) 8 in., 45c.

Riveted Shank—8 in., 35c.

1-Pt. Weed—(Fig. 27.) 6 in., 25c.

2-Pt. Weed—6 in., 25c.

Handled Planters—7½ in., 50c.

Scuffle Hoes—English, 8 in., 70c. 6 in. 50c.

Handled American Scuffle Hoe—50c.

POTATO HOOKS—Oval, 4 tine, 50c.

DOCK LIFTER—Heavy, with D handle, \$2.25. Light, 75c.

OIL CANS, OILS, AXLE GREASE

Machine Oilers—10c and 25c.

Royal Axle Grease—Dark, 15-lb., pails, 75c. 25-lb. pails, \$1.00.

Mica Axle Grease—15c. 3-lb. pails, 25c.

10 lbs., 75c. 15 lbs., \$1.00. 25 lbs., \$1.25.

Harvester Oil—Gal. 75c.

Gasoline Engine Oil—Gal., 75c.

Hard Oil—For Gasoline Engine, 1½-lb. cans, 20c. 5-lb. cans, 75c.

Cream Separator Oil—Gal., 75c.

POST-HOLE DIGGER (Fig. 50)

Strong and durable, easily operated, \$1.75. New Champion—Post Hole digger, \$1.00. Gibbs—\$1.75.

SLIDING KRAUT CUTTER

Sliding Kraut Cutter With Two, Three or Four Knives

No. 50—2 Knives, 8x26 inches.....	\$1.75
No. 55—3 Knives, 8x26 inches.....	2.00
No. 65—3 Knives, 9x30 inches.....	3.25
No. 70—3 Knives, 12x36 inches.....	4.50
No. 75—4 Knives, 12x36 inches.....	5.00

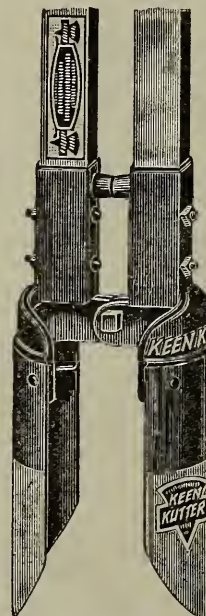


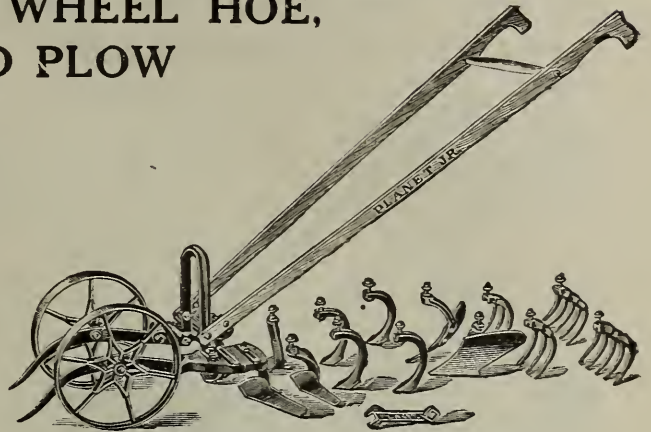
Fig. 50.

"PLANET JR." No. 11 DOUBLE WHEEL HOE, CULTIVATOR, RAKE AND PLOW

This instrument will do the work of three men with hand hoes, and do it better. The No. 11 is an invaluable tool for use in small crops. The variety of work that can be done with it is almost incredible. It has 11-inch wheels, which can be set at 4 different distances apart. The arch is high. Furnished complete, with attachments as shown in cut. Price, \$11.00.

No. 12 DOUBLE WHEEL HOE, CULTIVATOR AND PLOW

This tool is identical with the No. 11, except that it has no rakes and only 1 pair of 6-in. hoes. Price, \$8.75.



No. 13 "PLANET JR." DOUBLE WHEEL HOE

Has only 1 pair of 6 in. hoes. Price, \$6.00.

No. 14 "PLANET JR." DOUBLE WHEEL DISC HOE, CULTIVATOR AND PLOW

Price, with attachments as in cut, \$10.00. Packed weight, 38 lbs. One set of disc hoes, 1 pair 3-prong cultivator teeth, 1 pair plows, 1 pair leaf lifters.

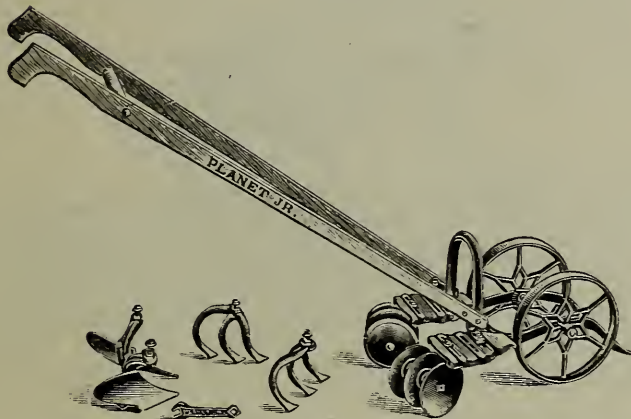


Fig. 2.

No. 16 "PLANET JR." SINGLE WHEEL HOE, CULTIVATOR, RAKE AND PLOW (Fig. 1)

Single Wheel Hoes are lighter than the double, and do almost the same variety of work. They are used principally between the rows instead of straddling them. The No. 16 is complete, with attachments as shown in cut. It can be adjusted for different width rows. Price, \$7.25.

No. 17 SINGLE WHEEL HOE

Like the No. 16, but without rakes and leaf guard. Price, \$6.25.

No. 17½ SINGLE WHEEL HOE

Has 1 pair of hoes and 3 cultivator teeth. Price, \$5.50.

No. 18 SINGLE WHEEL HOE

The same as the No. 16, but is equipped with 1 pair hoes and no other attachments. Price, \$4.50.

No. 38 "PLANET JR." SINGLE WHEEL DISC HOE, CULTIVATOR AND PLOW

Price, complete, as in cut, \$8.50. ((Fig. 2) Packed weight, 30 lbs. One set discs, 1 pair 3-prong cultivator teeth, 1 plow, 1 leaf lifter.

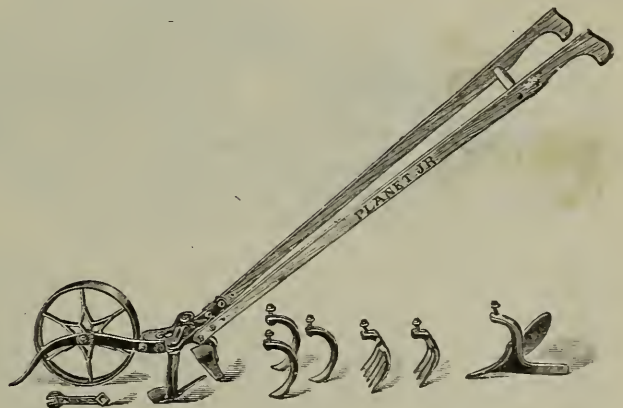
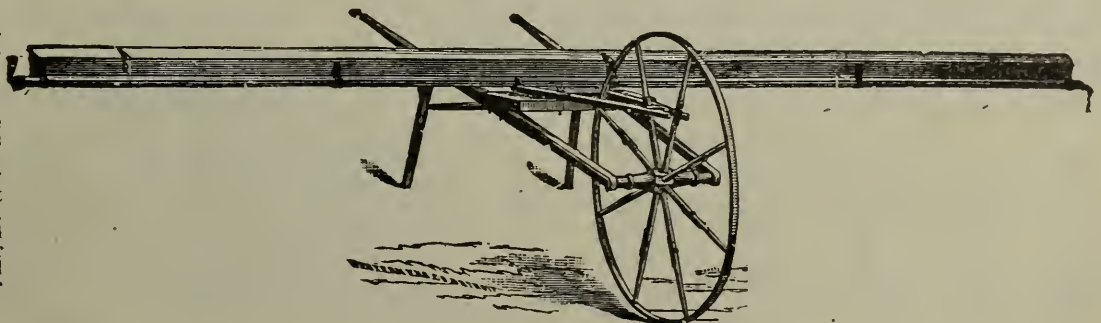


Fig. 1

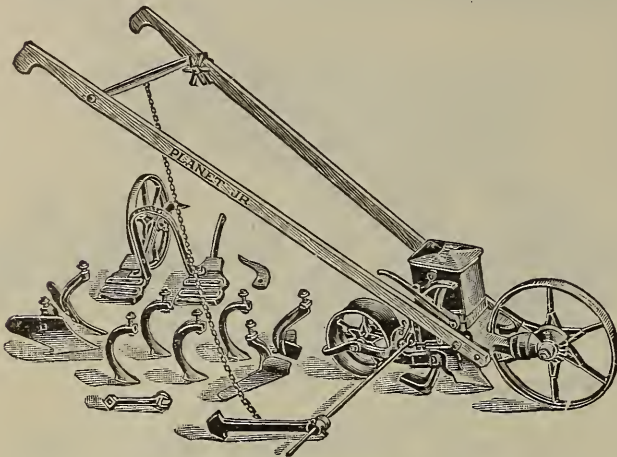
THOMPSON'S CLOVER AND GRASS SEEDER

This is one of the best Seeders. Manila rope feed. Is light and strong, very simple and does very accurate work. The Thompson Seeder has been on the market a long time and is very popular. The Thompson is a wheel-barrow seeder. No. 1, 14-foot Seeder, for clover and timothy, \$7.00. No. 5, 14 feet, with double hopper to sow blue and orchard grasses, as well as clover and timothy, \$9.25.



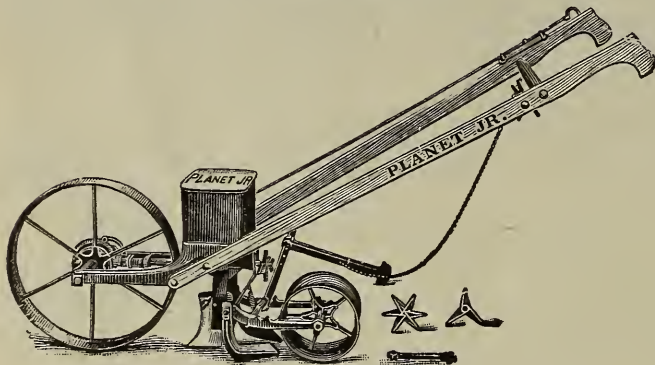
All Prices Subject To Change Without Notice

No. 26 "PLANET JR." COMBINED HILL AND DRILL SEEDER DOUBLE WHEEL HOE, CULTIVATOR AND PLOW



This new combined machine is intended for gardeners who have sufficient acreage in crops for a double wheel hoe to be used to good advantage and do not want to buy separate machines. It can be used as a drill and is almost identical with the "Planet Jr." No. 4. It is thoroughly substantial and accurate in sowing all kinds of garden seeds in hills or drills. It has 11¼ inch wheels, and the hopper holds 2½ quarts. As a wheel hoe it is identical with the "Planet Jr." No. 12 double wheel hoe, the very best machine on the market. It takes but a moment to change from drill to wheel hoe, and the whole combination is one that we can heartily recommend and guarantee to be satisfactory. Price, \$16.00.

"PLANET JR." No. 3 HILL AND DRILL SEEDER



This Seeder is the latest and most perfect development of the hand seed drill. It sows evenly in drills and also drops in hills, 4, 6, 8, 12 or 24 inches apart. It is thrown out of gear instantly by moving a convenient lever or the flow of seed is stopped by pushing down the feed rod. No time is lost, no seed is wasted; it is quickly set to sow the different kinds of seeds in the exact quantity required. We guarantee this drill to be accurate and to give satisfaction. The accuracy insures a regular stand of plants with the least seed, and the price of the drill is more than made up in the saving of seed. Holds 3 quarts. Price, \$12.50.

WATER BALLAST LAWN MOWER

No-Tip attachment holds handle upright when not in use. This roller can be filled with water to any desired weight. It can thus be regulated to suit soft turf, firm lawns or driveway, tennis court, etc. It can be emptied for storing away, making it light and easy to handle. The drum is high carbon steel with all seams electric welded. Edges are rounded back to prevent cutting of lawns, courts, etc.

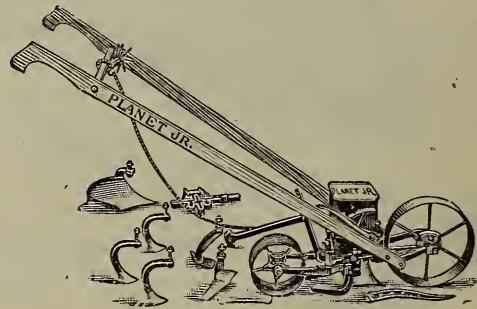
The axle is mounted on roller bearings, making the roller run very easily.

Order No.	Diam. of Drum.	Length of Drum.	Weight, Empty.	Weight, Filled with Water	Factory List Price.	Our Special Price.
WB 5	18 in.	24 in.	80 lbs.	310 lbs.	\$13.00	\$11.00
WB 7	24 in.	24 in.	115 lbs.	500 lbs.	17.00	14.25
WB 9	24 in.	32 in.	130 lbs.	650 lbs.	19.00	16.00

No. 5 "PLANET JR." HILL AND DRILL SEEDER

This drill is identical in construction with the No. 3, but is larger. The hopper holds 5 quarts. It works very light and is intended for those having a great deal of planting to do. Price, \$15.50.

"PLANET JR." No. 4 COMBINED SEED DRILL, SINGLE WHEEL HOE, CULTIVATOR AND PLOW



This is the most popular combined tool made. It combines in a single implement a first-class hill-dropping seeder, a single wheel hoe or weeder, a cultivator and a plow. The hopper holds 2 quarts of seed, which can be sown in continuous rows, or dropped in hills, at 4, 6, 8, 12 or 24 inches apart. Capacity of hopper 2½ quarts. The drill is detached and the tool frame substituted by removing but one bolt. With this one implement the small farmer can do practically all the work in small crops. Price, complete, \$13.25. As a plain drill, \$10.75.

"PLANET JR." No. 1 COMBINED DRILL SEEDER, WHEEL HOE, CULTIVATOR AND PLOW

This tool is used the world over and, excepting our Hill and Drill Seeders, is the most perfect drill known. The hopper holds 3 pints and sows in an even regular stream, whether there is much or little seed in hopper. The machine is extremely simple, has no agitator, belts or gearing, and will not injure any seed. From a drill it is changed to its other uses by removing 2 bolts, when hoes, cultivator teeth or plow can be quickly attached. It is a practical, everyday time and labor saver, a grand remedy for the backache, and the best low-priced combined machine on the market. Price, \$11.50.

FIRE-FLY GARDEN PLOW

This tool is exceedingly useful to owners of small gardens. It will throw a furrow four to six inches wide and one to three inches deep, and deeper by going a second time in each furrow. It makes fine furrows for manure or seeds and covers them, and makes up rows for all kinds of plant setting. In cultivating, plow away, weed the row and plow back again; nothing more thorough than this. After the furrow is thrown away from the crop lightly, leave it a few days before throwing back. This tool will enable a busy man to do in his spare minutes nearly all the work in a family garden.

Chicken raisers find it of great advantage in plowing up their scratching yards. Packed weight, 14 lbs. Price, \$2.35.

John W. Holterman, Box 32, Espanola, New Mexico, writes March 6, 1912: "Your Planet Jr. garden plow is one of the greatest inventions of its kind. Bought one last spring and can now keep my garden clean, which I could not do before. No up-to-date gardener can be without a Planet Jr. No other plow like the Planet Jr."

J. D. Williams, Centerville, N. Y., writes May 22, 1914: "Planet Jr. tool is a great help in the garden."

"Planet Jr." Tools Are Used All Over the World.

"IRON AGE" AND SPANGLER SINGLE ROW FERTILIZER DISTRIBUTORS

"IRON AGE"

This is a most convenient and satisfactory machine to distribute fertilizers in an open furrow after the ground is prepared for planting potatoes, tobacco, corn, peas, beans, etc. The rear shovel mixes the fertilizer thoroughly with the soil. The machine is substantially built and is easily regulated to sow fertilizer in any quantity, from 150 lbs. to any amount desired per acre, spreading the fertilizer 6 inches wide in the furrow. The shovel which follows the fertilizer discharge is attached to a drag bar, which is raised or lowered at will by a lifter, arranged so that it may be held at any desired height. Price, \$18.00.

"SPANGLER"

This machine will handle all kinds of commercial fertilizers—lumpy, fine, damp or dry. It will sow in single rows, with absolute regularity, any quantity from 150 pounds to 2800 pounds per acre.

The Spangler Single Row Fertilizer Distributor is the only perfect machine that will sow fertilizer regularly in an open furrow for cotton, potatoes, tobacco, corn, peas, beans, etc. It will save its cost every season. No farmer or trucker can afford to be without one.

The Shovel or Cultivator Tooth which follows the fertilizer discharge, is attached to the drag bar, and can be raised or lowered at will with a lever which holds the shovel at any desired height. This shovel thoroughly mixes the fertilizer with the soil in the furrow. Adjustable teeth or stirrers can also be attached to the side frame, so as to mix the fertilizer and the soil on the edges of the furrow. These teeth are only furnished when ordered. Price extra. The machine is fitted with a clutch on the axle, and by simply pulling a lever at the top of right hand handle, the fertilizer feed can be unshifted, so that it will not sow. The box will carry nearly one bag of fertilizer.

Buy the "Spangler Distributor." It will help you to make big crops.

Ask your dealer for the "Spangler" and insist upon having it. It always pays to buy the best.

List Price, One horse Single Row Fertilizer Distributor, weight, 140 lbs.....	\$15.00
List Price, Deduct on Single Row Fertilizer Distributor for mixer .....	.90
List Price, Add for long axle.....	.60
List Price, For extra long hopper with long axle.....	.75

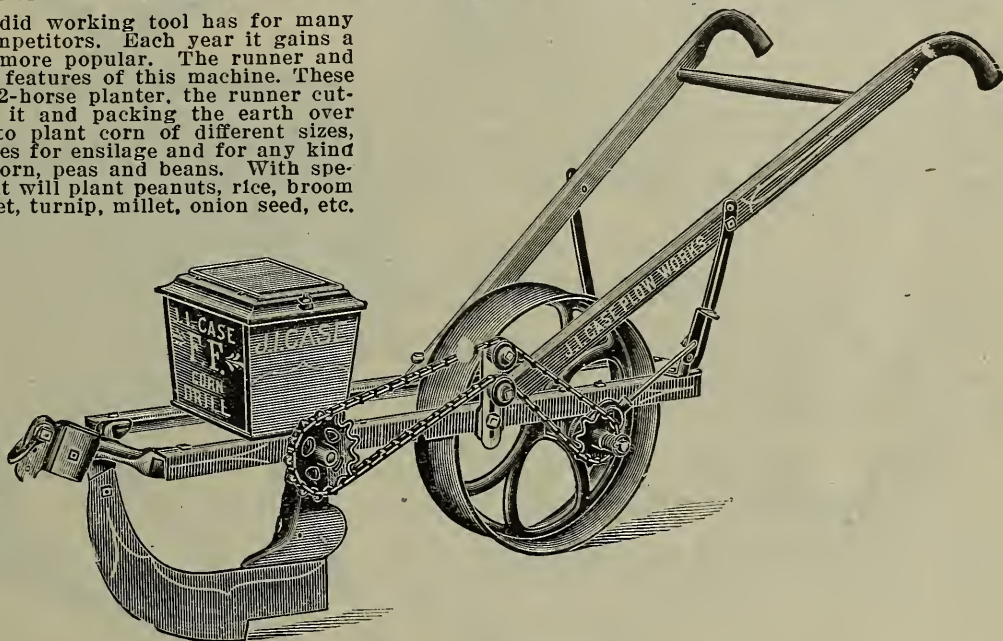
FARMER'S FRIEND PEA AND BEAN DRILL

This simple, compact and splendid working tool has for many years held its own against all competitors. Each year it gains a host of new friends and becomes more popular. The runner and covering wheel are distinguishing features of this machine. These make it practically one-half of a 2-horse planter, the runner cutting a furrow, the wheel closing it and packing the earth over the seed. Each drill has plates to plant corn of different sizes, 8, 12, 16 and 20 inches apart. Plates for ensilage and for any kind of seed can be obtained. Plants corn, peas and beans. With special plates, which we can furnish, it will plant peanuts, rice, broom corn, sorghum, popcorn, carrot, beet, turnip, millet, onion seed, etc.

FERTILIZER ATTACHMENT

This is entirely separate from every other part of the machine, making it very simple and perfect. A smooth disc forces the fertilizer out. There is no friction, no clogging, no breaking. Positive, light and simple. The fertilizer does not come in contact with the corn or dropping device. A gauge wheel is added to this machine to regulate the depth, and help carry the slight additional weight.

Price, with fertilizer attachment, \$16.00; without fertilizer attachment, \$14.00.



"NEW MODEL" SEED DRILL



A Seed Drill with 30 years' success behind it—popular with seedmen and market gardeners—a "Model" in the truest sense of the word.

We have exact regulation of seed discharge by using an eccentric index or indicator which adjusts the slide for seed opening exactly where you want it.

Price (Fig. 28), packed weight 50 lbs., \$9.50.

Exact adjustment for flow of seed

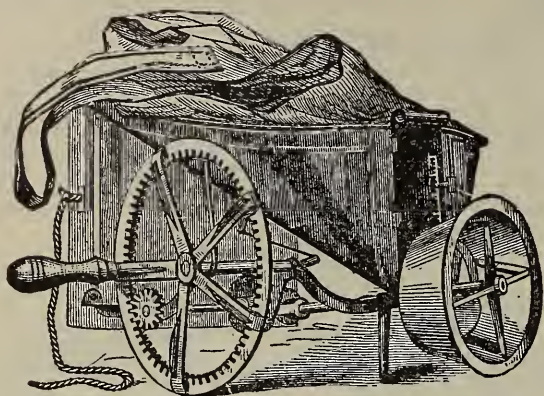
Marker adjusted either side

Covering wheel attached so you can roll soil high and heavy.

Fig. 28.

All Prices Subject To Change Without Notice

CAHOON'S BROADCAST SEEDER

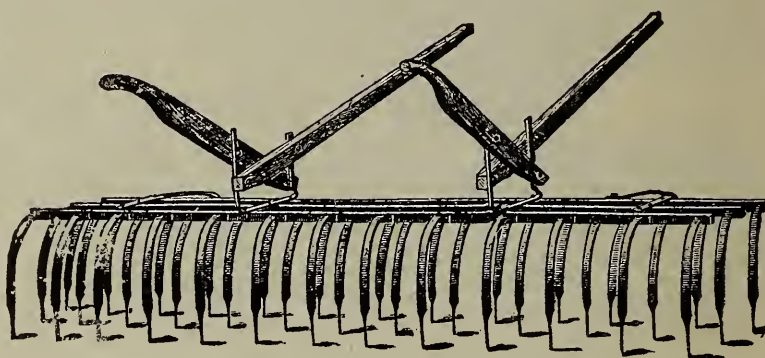


For sowing wheat, oats, hemp, barley, rye, buckwheat, grass seeds, rice, etc. Sows from 4 to 8 acres per hour at an ordinary walking gait; sows wheat about 40 feet wide. Accurate. Will give perfect satisfaction and save its cost in a very short time. Price, \$3.50.

When buying Field Seeds, be sure and buy the best. We make it a point to sell the best, which are the cheapest in the long run.

THE HALLOCK QUADRUPLE WEEDER AND CULTIVATOR

This is a tool which has rapidly grown in favor, and excellent results are obtained from its use. The frame is of angle iron. The teeth are 6 inches apart on each frame and each tooth is bolted on separately. The handles and shafts are adjustable. The teeth are arranged so as to work the ground thoroughly, and also in a manner that permits trash to pass through. By removing 1 tooth a space of 4 inches can be obtained over the row, and by removing 2 teeth a space of 6 inches can be obtained. On account of this feature the Weeder can be used for working narrow rows by taking out the proper number of teeth. This tool has been adopted and passed upon favorably by many of the most practical farmers. Prices, \$10.00 to \$12.00.

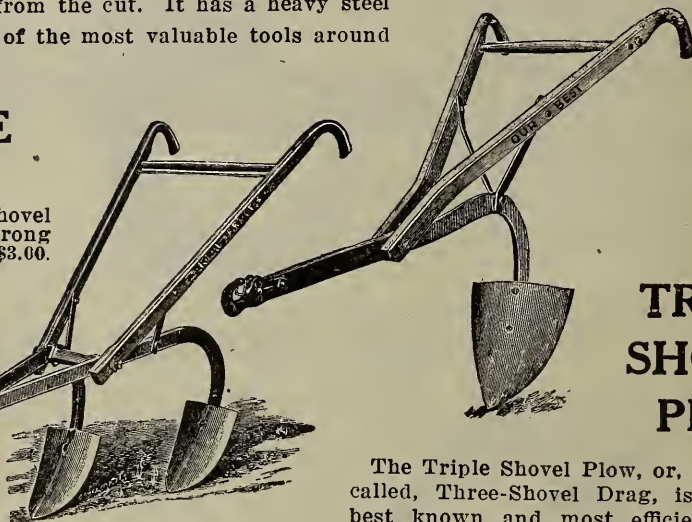
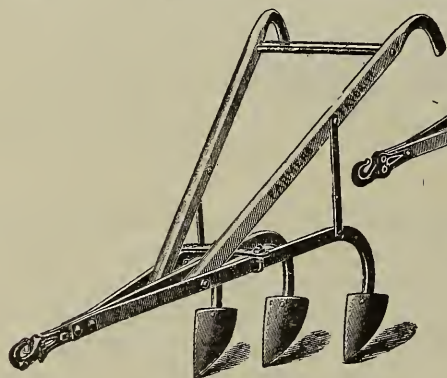


"OUR BEST" SINGLE SHOVEL PLOW

The design of this plow is readily understood from the cut. It has a heavy steel beam of good quality and a broad steel shovel. One of the most valuable tools around the farm. Price, \$2.75.

"OUR BEST" DOUBLE SHOVEL PLOW

Every farmer realizes the value of a Double Shovel Plow, with a good set. The Plow we illustrate is strong and runs nicely. It will give good service. Price \$3.00.



TRIPLE SHOVEL PLOW

The Triple Shovel Plow, or, as it is often called, Three-Shovel Drag, is one of the best known and most efficient tools for working corn. In some sections they are used almost exclusively. The beams of our Triple Shovel Plow are of a good grade of steel, and heavy enough to stand severe work. The shovels are of good quality, and, on the whole, the tool will give great satisfaction and long service. Price, \$3.50.

SHOVEL PLOW STEELS AND EXTRAS

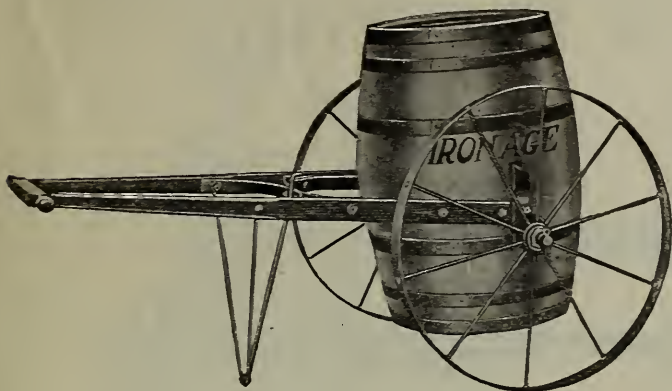
14-inch Blade for Single Shovel Plows.....	75c
16-inch Blade for Single Shovel Plows.....	85c
7-inch Blade for Double Shovel Plows, per pair.....	50c
8-inch Blade for Double Shovel Plows, per pair.....	65c
Bull Tongues for Double Shovel Plows, per pair.....	45c
Triple Shovel Blades, per set of 3 blades.....	50c

Clod Fenders for Double Shovel Plows, each.....	50c
Shovel Plow Handles, per pair, complete.....	75c
Bolts for Shovel Plow Blades, each.....	5c

PLAIN PLOW HANDLES—(Dressed)

1½x2 inches, 5 feet long, per pair.....	40c
1¼x2¼ inches, 5 feet long, per pair.....	50c

All Prices Subject To Change Without Notice



COMBINATION BARREL-TRUCK AND HANDCART

Our Special
Price

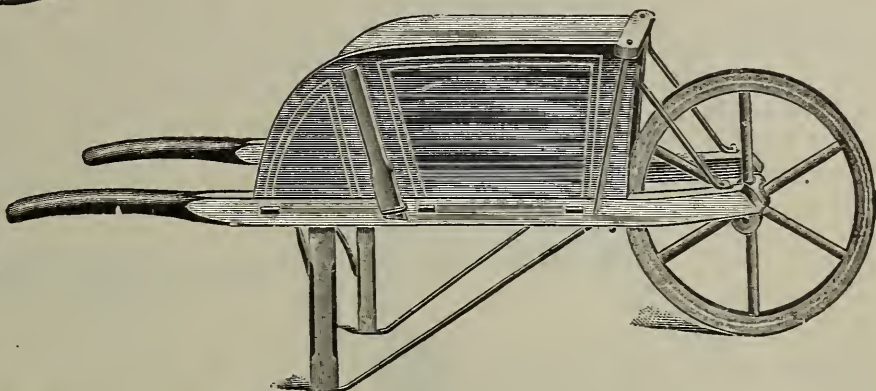
Truck with Reg. Tire and Barrel.....	\$9.00
Truck with 2½ inch Tire and Barrel.....	10.00
Truck with 3½ inch Tire and Barrel.....	11.00
Can be furnished with wood and steel wheels.	

Leaf Rack	\$6.00
Box	3.50
Barrel	3.50

BUCH'S Nos. 2 AND 3 WHEELBARROWS

A durable neat garden Barrow. Size of body—28 inches long, 20 inches wide in front, 24 inches wide at back. Sideboards—27 inches long, 12 inches high. Handles—5 feet long, 2x 1¾ inches. Wheel—20 inches diameter. 6 spokes.

No. 2.....\$4.00 No. 3.....\$3.75

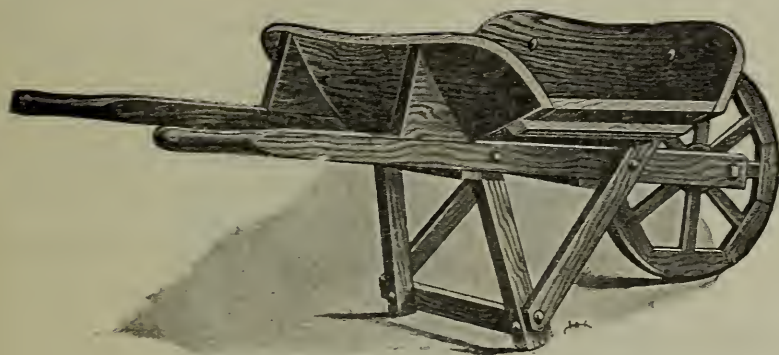


BENT TRAY WHEELBARROW

This is a "full bolted" Barrow and is set up for shipment.

Full-sized Bent Tray, well planed, cleated, braced and bolted. Legs and cross pieces gained, leg braces extending beyond handles, bracing tray, and bolted to it.

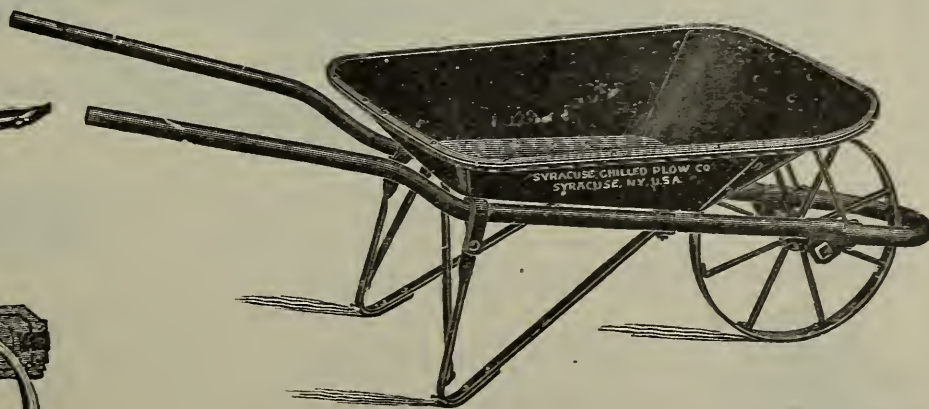
Diameter of wheel, 17 inches; tire, 3/16 x 1½ inches; spokes, ¾ x 1 inch; ½-inch axle bolt. Price, \$2.50.



LEAF RACK AND BOX ATTACHMENT FOR WATER TRUCK

STEEL TRAY TUBULAR WHEELBARROW

(Fig. 3)

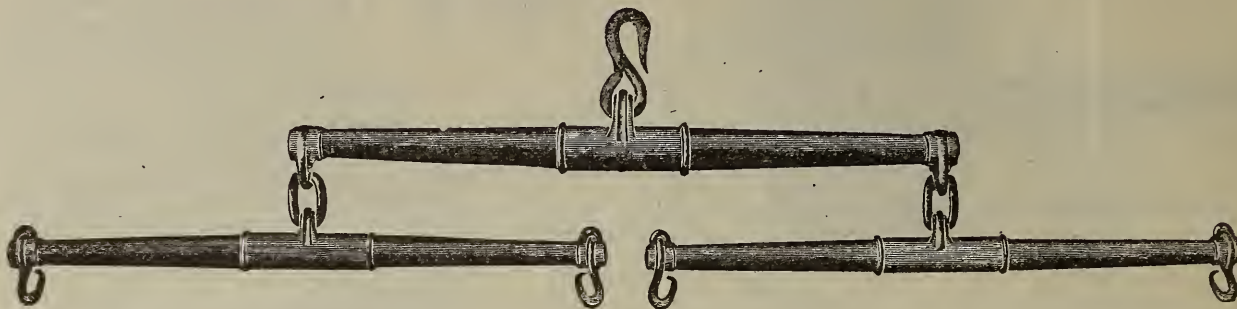


All our Tubular Barrows are so constructed as to throw the weight well on the wheel. The legs are well braced and are provided with a steel shoe, which, when worn, can be readily replaced; saving the expense of a new leg.

No. 80A—Capacity, 3 cubic feet; length on top, 33 inches; width on top, 28 inches; depth in front, 8 inches; depth in rear, 5 inches; wheel, 17 inches; weight, 75 lbs. Price, \$6.75.

All Prices Subject To Change Without Notice

TUBULAR STEEL PLOW DOUBLE TREES



Can furnish these in sets complete, as shown in cut, or can furnish single trees separate. They are extensively used, both for farm plowing and by contractors for heavy work. They last a lifetime.

No. 0—Light, 33-in. double tree, 28-in. single trees, weight, 18 lbs.....Per set, \$3.50

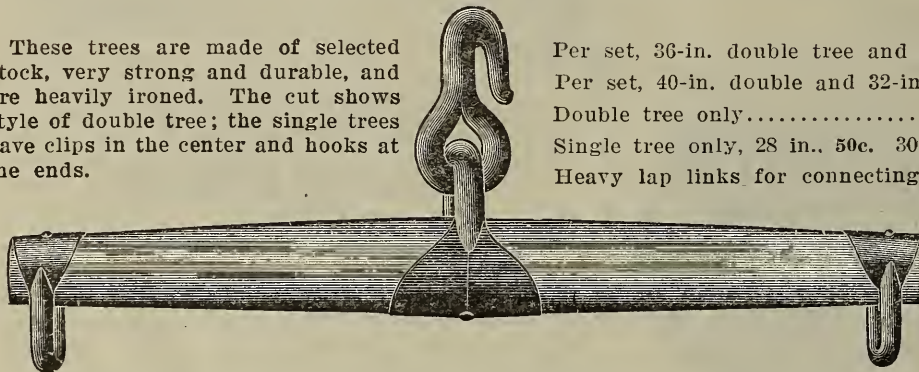
No. 1—Regular, 36-in. double tree, 30-in. single trees, weight, 20 lbs.....Per set, 3.75

No. 2—Heavy, 36-in. double tree, 32-in. single trees, weight, 25 lbs.....Per set, 4.75

TUBULAR SINGLE TREES—26 in., 80c. 28 in., 85c. 30 in., 95c. 32 in., \$1.10.

WOOD PLOW DOUBLE AND SINGLE TREES

These trees are made of selected stock, very strong and durable, and are heavily ironed. The cut shows style of double tree; the single trees have clips in the center and hooks at the ends.



Per set, 36-in. double tree and 30-in. single trees.....\$2.25

Per set, 40-in. double and 32-in. single trees..... 2.50

Double tree only.....36 in., \$1.10. 40 in., \$1.25

Single tree only, 28 in., 50c. 30 in., 60c. 32 in., 70c.

Heavy lap links for connecting double and single trees, 10c each.

Heavy single tree clips. Per set, 35c.

Heavy double tree clips. Per set, 40c.

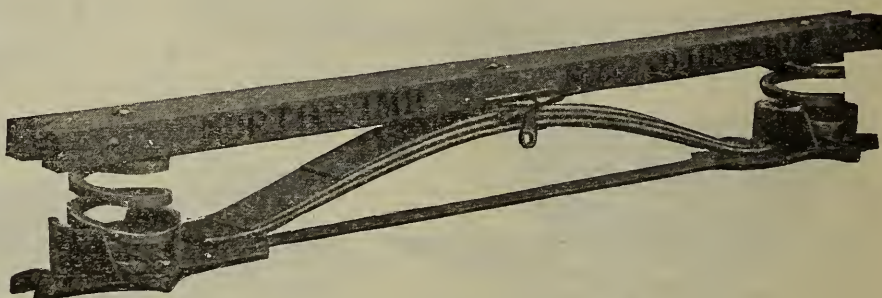
WOOD NECK YOKES—Ironed complete. Price, each, 85c.

EXTRA HEAVY PLOW TRIPLE TREES—Each, \$3.25.

NORTH'S IMPROVED ADJUSTABLE WAGON SPRING

No fruit grower or trucker can afford to be without a set. They are worth many times their cost. In Ordering, state width of bolster between standards.

Capacity.	Set.
1000 lbs.....	\$ 5.00
1500 lbs.....	6.00
2000 lbs.....	6.50
2500 lbs.....	7.00
3000 lbs.....	7.50
4000 lbs.....	8.00
5000 lbs.....	9.00
6000 lbs.....	11.00



Cross spring is shown in position for heavy loads. can be turned off bolster for light loads.

SPECIAL DISCOUNT FROM ABOVE PRICES



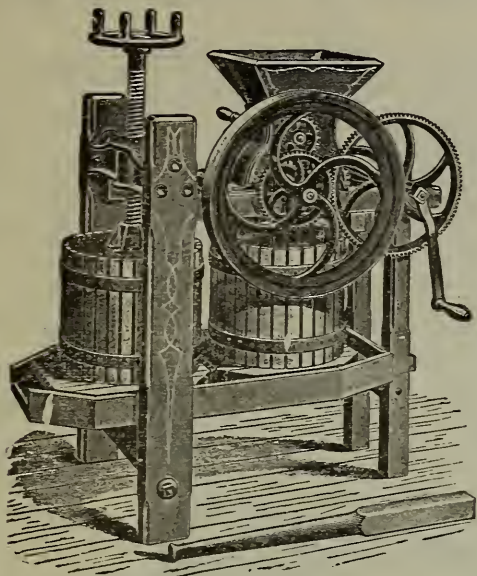
CRYSTAL METAL FARM BELLS

These bells are covered with a rich gold bronze, black varnished hangings. No. 1, 40 lbs., \$3.50. No. 2, 50 lbs., \$3.00. No. 3, 75 lbs., \$4.25. No. 4, 100 lbs., \$6.00.

No. 3 HARVEY, JR., BOLSTER SPRINGS

Capacity	36 in. or 38 in.	40 in. or 42 in.
1000.....	\$4.00	\$4.50
1500.....	4.50	5.00
2000.....	5.00	5.50
2500.....	5.50	6.00

All Prices Subject To Change Without Notice

DOUBLE-CAGE CIDER MILL

A fast working mill that does thorough work. Built in 3 sizes. The Senior has a capacity of from 4 to 6 barrels per day, while the Junior has hardly half this capacity. Made of the best material and nicely finished. These Mills are unsurpassed in ease of operation and capacity. The fruit is thoroughly mashed before being delivered to the tubs, and all of the juice is readily extracted.

PRICES:

Junior (small).....\$18.00 Medium.....\$21.00
Senior (large).....\$25.00

BERRY PRESSES

For pressing juice from grapes and berries for wine, it is a very handy machine. It is well made, of good material and will do satisfactory work. Made in 3 sizes.

PRICES:

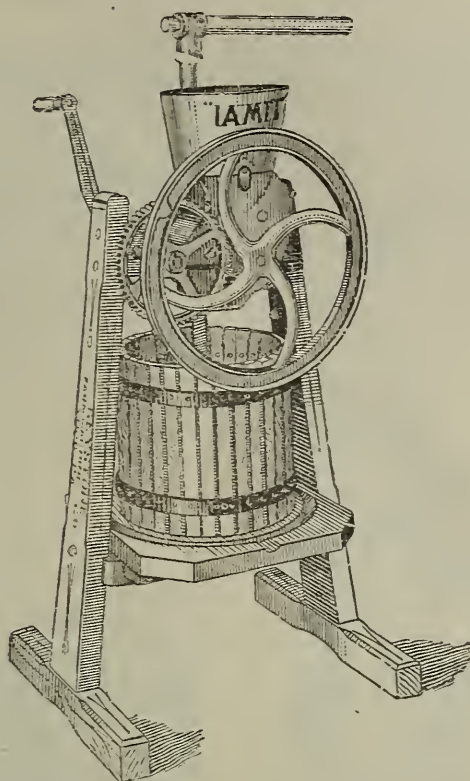
No. 1.....\$4.00
No. 2.....4.75
No. 3.....8.00

ENTERPRISE LARD AND FRUIT PRESS AND SAUSAGE STUFFER

Made entirely of steel, iron and tin. Thousands in use. Circular on application.

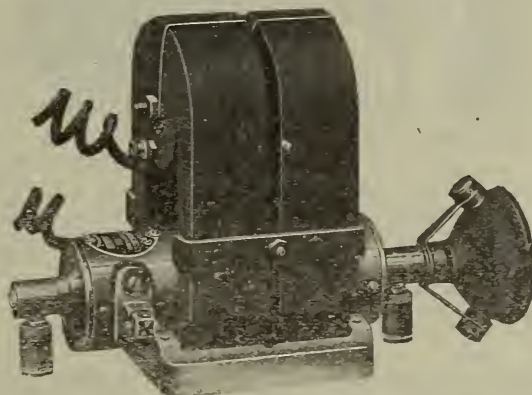
No. 15—2 quart.....\$5.25
No. 25—4 quart.....6.00
No. 35—8 quart.....7.25

All Prices Subject To Change Without Notice

"IAMIT" CIDER MILL

This is an improved pattern of the old Hutchinson Single-Cage Cider Mill. The enlarged hopper can be noticed by the illustration. This change is made to give a larger feed opening, as the small hopper and throat are the principal objections to the Hutchinson Mill. Equipped with a heavy fly wheel, which adds to the steadiness and ease with which it can be operated.

Price\$12.00

THE MOTSINGER AUTO-SPARKER

The Auto-Sparker will work on either touch or jump spark engines, providing the proper coil is used. We do not claim that the Auto-Sparker will spark an engine that no batteries will spark, or that it is a cure-all for an old engine that has no contact points or compression.

Price.....\$17.00

WAGNER FRUIT AND LARD PRESS

These presses are very strong and durable. Having a large screw and long leverage makes them easy to operate.

4-quart.....\$3.00
6-quart.....3.50
8-quart.....4.00

REMOVABLE BASKET HANDLES

Easily and quickly adjusted. Saves fruit and time. Baskets carried without mashing fruit. Each, 15c.

SPRAY PUMPS

The "Auto-Spray" No. 1, as illustrated, is the standard of all compressed air sprayers. It consists of a 4-gallon reservoir, made of heavy material, either brass or galvanized steel, as ordered. In this tank is inserted and locked our brass air pump, which may be attached or detached by the simple shift of the cam.

Diameter, 7 in.; height, 2 ft.; capacity, 4 gals.; weight, empty, 8 lbs.; weight, loaded, 39 lbs.; weight, shipping, 13 lbs.

"Auto-Spray" No. 1A, brass tank, with stopcock.....	\$7.00
"Auto-Spray" No. 1 B, brass tank, with auto-pop No. 1.....	8.00
"Auto-Spray" No. 1 C, galvanized tank, with stopcock.....	5.00
"Auto-Spray" No. 1D, galvanized tank, with auto-pop No. 1.....	6.00
Brass 2-ft. extension, per length.....	.75
Brass elbow extension, each.....	.75
Two-row attachment.....	1.75
Torch	1.50
Strainer for "Auto-Spray" No. 1, solid brass.....	1.50

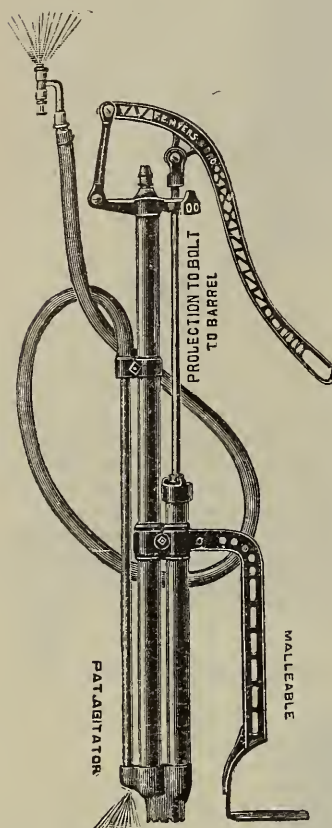
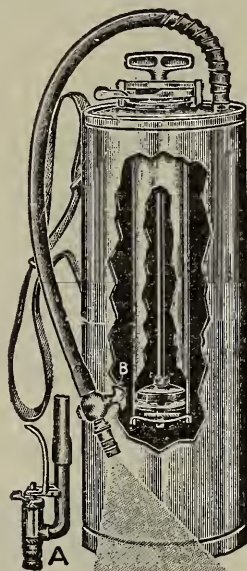


Fig. 632.



"Auto Spray" No. 1.

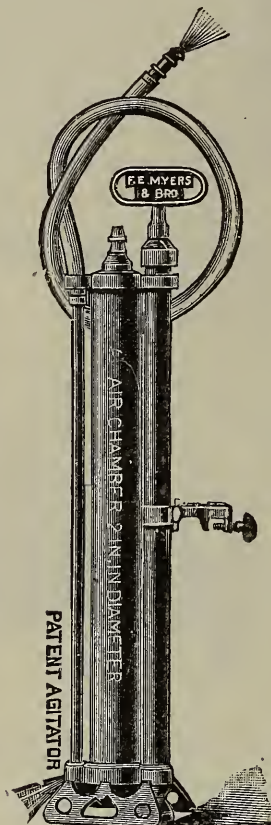


Fig. 657.

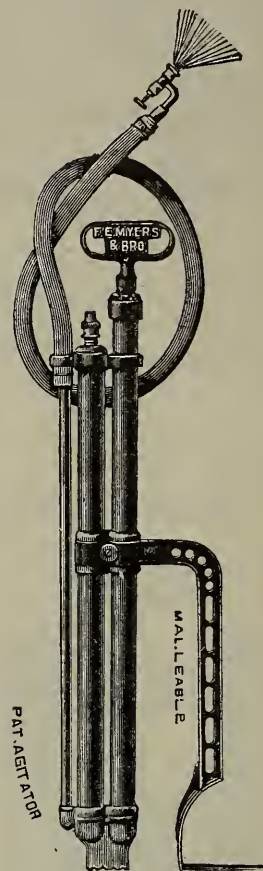


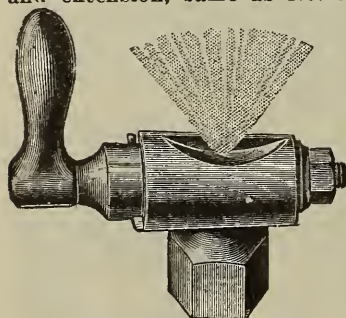
Fig. 640.

No. 327

"Myers Little Giant Brass Spray Pump," with agitator and bucket clamp, or footrest (see Fig. 640), complete with hose and Imperial, Bordeaux or Vermorel Nozzle and 8 ft. pipe extension (see Fig. 480), \$4.25. If either Bordeaux or Vermorel Nozzle and pipe extension is not wanted, deduct 50c; or 25c if either one of the two is to be omitted.

No. 326

(Fig. 640.) "Myers Imperial Brass Spray Pump." Fitted with nozzle and extension rod like No. 327, \$5.00. Less nozzle and extension, same as No. 327.



BORDEAUX NOZZLE

Price, 85c.

**SPRAY WITH LIME-SULPHUR TO
KILL SAN JOSE SCALE**

No. 324

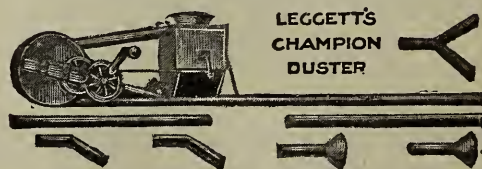
(Fig. 632.) "Myers Lever Brass Bucket or Barrel Spray Pump." Complete, fitted up like the above, \$5.50. Less nozzle, same as above.

No. 315

(Fig. 657.) "Myers Perfect Bucket Spray Pump." Complete, fitted up like the above, \$5.50. Less nozzle and extension, same as above.

Fig. 480

THE LEGGETT CHAMPION DUSTER. OR DRY POWDER GUN



Is the only successful machine of its kind on the market. It does its work thoroughly, is light in weight, simple, and so well made that it will last for years. Can dust two rows at one time and is excellent for dusting trees. Price, \$9.50.

All Prices Subject To Change Without Notice

MYERS STANDARD BARREL SPRAY PUMPS, ETC.

For Hot, Cold or any Kind of Mixture. Has Mechanical Agitator, Solid Brass Ram Plunger, Ground Bevel Valve and Seat.



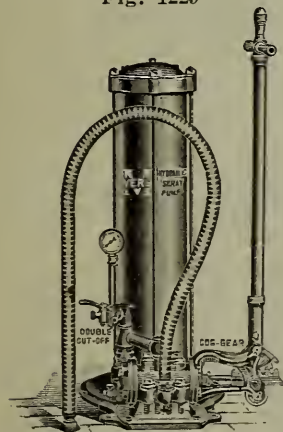
No. 305. MYERS IMPROVED BARREL SPRAY PUMP

(Fig. 702)

The entire Pump sets in the barrel containing the liquid and is bolted fast to the staves at the upper end. The working parts being all submerged, the possibility of losing packing is done away with. Valves and seats are ground brass, brass cylinder and discharging pipe, patent expansive bucket, large 30-inch air chamber. Vermorel or Bordeaux nozzle, mechanical agitator and pipe extension. Price, \$9.50.

No. 306—The same Pump as No. 305, but with 2 leads of hose and 2 nozzles. Price, \$10.50. If mechanical agitator is not wanted, deduct 75c. If pipe extension is not wanted, deduct 25c. (This applies to Nos. 305 and 306 Pumps.)

Fig. 1229



Rep. No. R335

BUILT ESPECIALLY FOR LARGE ORCHARDS. THE BEST OF ITS KIND.

Fig. 1229 represents the Myers Cog Gear Hydraulic Spray Pump. It has an air chamber 8 inches in diameter by 36 inches in height; mounted on one base in connection with our Double Acting Cog Gear Spray Pump.

The application of the Cog Gear Movement to the Piston Rod of a Pump gives a compound leverage that increases the power applied to the Pump Handle over 40 per cent. This special leverage adapts it for spraying purposes, as this work must be done under heavy pressure.

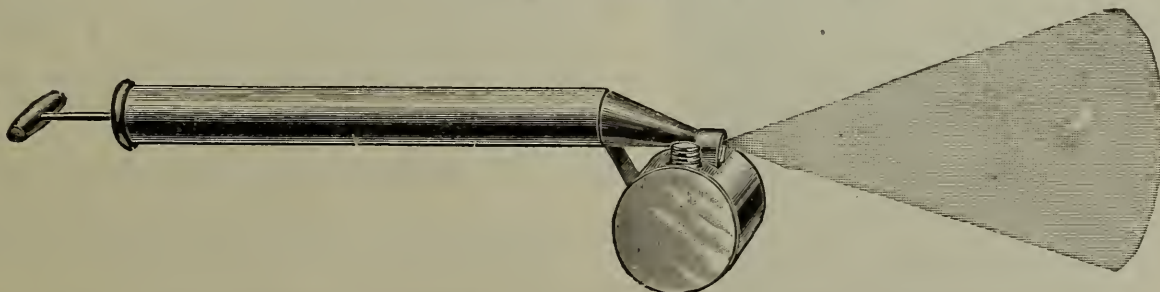
One especial feature of this pump is that it has a valve located between the air chamber and pump, which retains the pressure of the air chamber on the nozzles and relieves the valves of the pump from all strain.

The Valves: It has brass valves and ground brass bevel valve seats. The valves are located on the side of the pump and are easily reached by removing the nut immediately over the valve, which can be done with an ordinary monkey-wrench without disturbing the air chamber, suction or discharge pipe. This is a special feature found only in the Myers Cog Gear Spray Pump, see Fig. 1365.

The Plunger is Brass, Hemp Packed, which adapts it to handling any kind of material, no matter how caustic and either hot or cold.

The Cylinder is a seamless drawn brass tube 2 inches in diameter, extending full length, removable by using an ordinary wrench.

THE FAULTLESS HAND SPRAYER



Throws a spray as fine as mist. Excellent for spraying plants, also for spraying disinfectants and "Anti-Fly Pest" on cattle. Price, 50c.

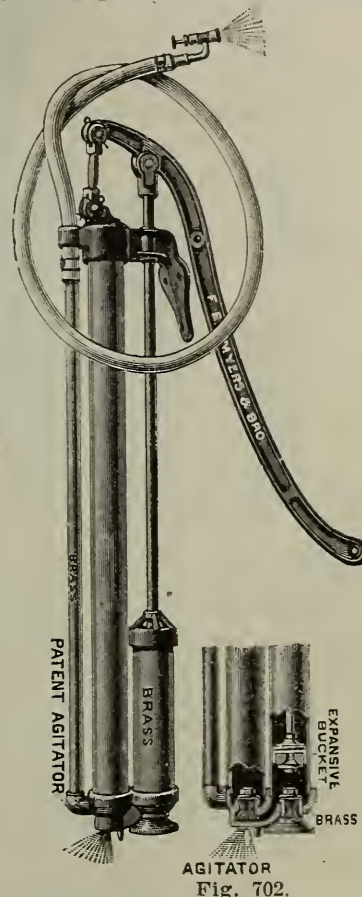
Fruit Growers Don't Fail to Spray Systematically.

MYERS O. K. SPRAY PUMP

The new Myers O. K. Spray Pump has a special clamping device that can be adjusted to any barrel, regardless of the height or width. The cylinder is what is known as a ram plunger, made of solid brass tube with a closed end, which passes through a circular hemp packing, which adapts it for pumping hot, cold or any kind of mixture. The packing gland has a simple and positive adjustment, by which all wear can be readily taken up. The valves can be easily taken out and repaired. The air chamber is made of 2½-inch steel tube, the handle is wrought steel, with adjustable stroke, and the pump is fitted for 2 strings of discharge hose. Price of pump, with 2 leads of 10-foot hose, 8-foot pipe extensions and Vermorel or Bordeaux nozzles. Price \$23.00.

RUBBER GLOVES

Extra Heavy, All-Rubber, Seamless, "Hi-Voltage" Electrician's Gloves.—Just the thing to handle the poisonous chemicals used in the different spraying mixtures. Can be worn with canvas gloves inside or outside. Price, \$2.50.



AGITATOR
Fig. 702.

SPRAY WITH IRON AGE POWER SPRAYERS



For small or large orchards. Each develops 200 pounds, with 6 to 8 nozzles. The right kind of nozzles to apply the spray in the right way. Nozzle strainers with each lead of hose. One or two leads of hose, one or two spray rods, as desired. Outside strainer and sediment chamber, between pump and tank, easily cleaned.

Pump is double acting, direct connected with cut gears to the engine. Handles any kind of solutions, hot or cold, miscible oils, crude oil, lime, sulphur, etc.

Engine is two-horse, four-cycle, air-cooled.

Pump and engine mounted on one base.

Easily connected. Long connecting rods give easy, steady motion. Ball relief valve controls pressure.

Large air chamber keeps pressure even.

Cypress tanks, put together in the same strong way as on our well-known Sprayers for field crops. Easily cleaned.

Chain-driven revolving dasher keeps solution mixed. Built with platform for spraying high trees.

Steel tower can be supplied to either rig for extremely tall trees.

Tank filler supplied when wanted.

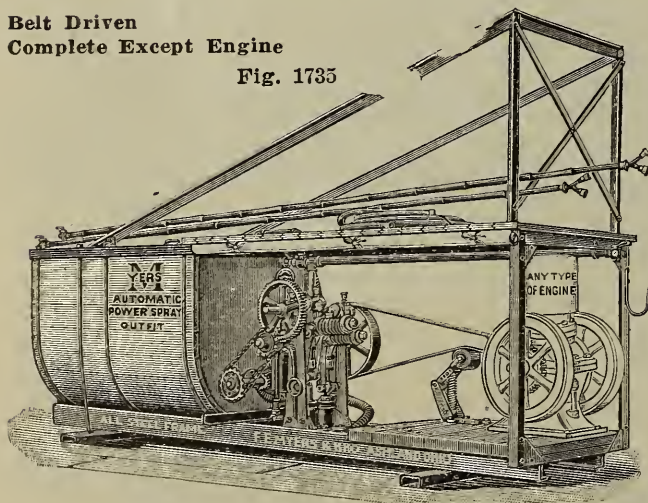
THE MYERS AUTOMATIC POWER SPRAY OUTFIT

PATENTED

Fitted with Automatic Duplex Pump

Belt Driven
Complete Except Engine

Fig. 1735



The Automatic Pressure Governor Insures Safety. Secures Uniform Pressure and Eliminates Unnecessary Wear, Relief Valve Not Required.

Fig. 1735 represents The Myers Automatic Spray Outfit, which is furnished complete, including hose, nozzles, Bamboo extensions, pump, tank, agitator, etc.; in fact everything with the exception of the engine and wagon truck. The entire framework is made of channel and angle iron, making a very stiff frame with the least possible weight. The tank is made of selected cypress, holds 200 gallons, and is fitted with rotary agitator with wooden blades. The agitator is driven by bevel gear and link chain, which makes a flexible joint and relieves the tank from all strain. There are no pipe connections between the pump and tank to cause leakage when subjected to the rough usage that a sprayer naturally encounters. The frame is fitted with two cross channel bars on the underside, which fit over the bolsters of the wagon, preventing forward or backward movement. The cab has heavy canvas curtains for protection of the engine and pump. The guard rails on top are to protect the operator from falling off.

We can furnish 50-gallon outfit if it will answer your purpose. Also 250-gallon if neither of the machines shown here are large enough.

All are plainly illustrated and described in complete Iron Age Spray Booklet, which will be mailed to any address on request. Also, Spray Calendar free.

Special information and suggestions in regard to any spraying proposition will be gladly given.

All Prices Subject To Change Without Notice

THE MAGIC SPRAY PUMP

In the Magic (Fig. 9), we offer the only hand spraying outfit that makes it practical for one man to maintain a pressure of 125 pounds continuously.

The Magic is a powerful, porcelain-lined cylinder single acting Pump for spraying, whitewashing and cold-water painting. Designed for use with tank or barrel.

It has a powerful spring that is compressed on the stroke when the plunger is drawing in the solution, and released on the reverse stroke when working against the full gauge pressure.

This unique, patented construction enables the operator to maintain high pressures with one-third less power than required to operate any other single or double acting or two-cylinder pump.

The Magic will be instantly appreciated when seen in operation by every fruit-grower, farmer, trucker and horticulturist who believes in thorough spraying.

Among many other exclusive and important features of the Magic Pump are:

- Non-corrosive porcelain-lined cylinder, 3 in. diameter.
- No stuffing boxes or outside packings.
- Air-chamber: Steel, 8 in. diameter.
- Plunger: Special cup-shaped, rubber and duck.
- Valves: Balls, hard brass, 1 5/16 in.
- Seats: Special composition rubber, reversible and interchangeable.
- Packing: Lead rings used on all joints.
- Working-parts: Simple and durable, built for heavy duty and high pressure.
- No threads come in contact with solutions.
- Mounted on oak platform.

PRICES AND OUTFITS—Fig. 9

Outfit	Description	List
A	Magic Pump on platform, with gauge, double cut-off, suction-hose and strainer.....	\$45.00
B	Magic Pump on platform, with gauge, double cut-off, suction-hose and strainer, two 8 or 10 ft. bamboo aluminum extensions with cut-offs and nozzles, all fitted.....	55.00
C	Magic Pump on platform, with gauge, double cut-off, suction-hose and strainer, two 8 or 10 ft. bamboo aluminum extensions with cut-offs and nozzles, and two 25 ft. lengths of Bean High-pressure spray-hose, all fitted.....	70.00

OUR LITTLE GIANT

(Fig. 70) is recognized as the best and most powerful barrel sprayer on the market, giving universal satisfaction for small orchards of a few acres. The pump has a large steel air-chamber, making it easy for the operator to keep up a high pressure and continue spraying for some time after pumping has stopped.

No stuffing-boxes, glands or outside packings, thereby insuring easy running.

Rotary agitator that is positive, insuring thorough agitation for such heavy solutions as arsenate of lead, bordeaux, whitewash and cold-water paint.

Porcelain-lined cylinder, non-corrosive, 2 1/4 in. diameter. Valves; Balls, hard brass.

Seats: Special composition rubber, reversible and interchangeable.

Plunger: Special cup-shaped, duck and rubber.

Double discharge "Y" for two leads of hose.

Working parts: Readily and easily accessible.

Regularly fitted for end of barrels.

The pump is held firmly in place by a cast iron topplate and thumb-hook bolts and an anchor at the bottom of the barrel.

PRICES AND OUTFITS—Fig. 70

Outfit	Description	List
A	A pump with agitator complete, top-plate, hook-bolts, Anchor and double discharge "Y" and cap.....	\$18.00

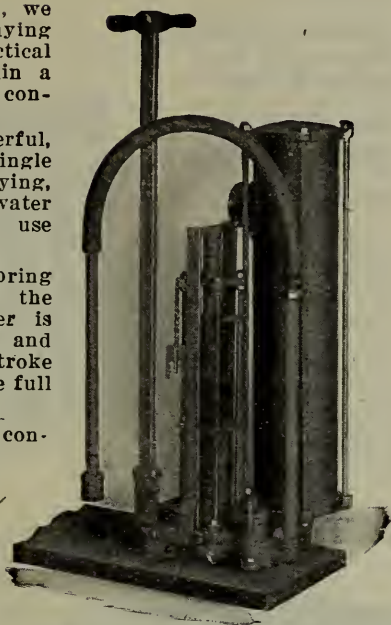


Fig. 9.

- B Pump with agitator complete, top-plate, hook-bolts, anchor, double discharge "Y" and cap, one 8-ft. bamboo-iron extension with cut-off and nozzle, all fitted.....\$20.00
- C (Complete)—Pump with agitator complete, top-plate, hook-bolts, anchor, double discharge "Y" and cap, one 8-ft. bamboo-iron extension with nozzle and cut-off, and 20-ft. of Silver Spray-hose, all fitted.....23.00
- If desired mounted in barrel, add to the above prices.. 2.50
- Fitted with gauge, coupling and nipple, add to above prices 3.00

PIPPIN

Many demands have been made on us for a low-priced sprayer for small orchards of a few trees, vineyards or field service.

To meet the demand we have designed our PIPPIN (Fig. 50), which is lighter in weight and smaller in capacity than our Fig. 70, yet a very durable, efficient and most satisfactory type of low-priced sprayer.

Cylinder: 2-in. seamless brass tubing. Plungers: special cup-shaped, rubber and duck. Valves: balls, hard brass. Seats: Special composition rubber, reversible and interchangeable. Agitator: Simple and effective. Air-chamber: Medium capacity, insuring uniform pressure.

The pump is held in place in the barrel by a clamp at the top fitted over the end of the stave, and an anchor at the bottom of the barrel.

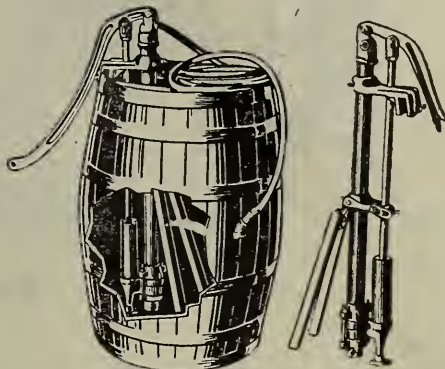
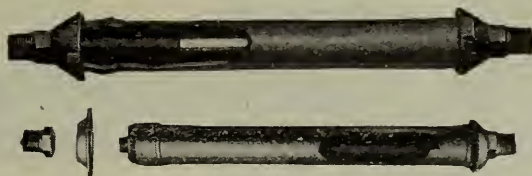


Fig. 50

PRICES AND OUTFITS—Fig. 50

Outfit	Description	List
A	Pump with agitator, single discharge and anchor complete.....	\$11.00
B	Pump with agitator and anchor complete, one 8-ft. bamboo-iron extension, with nozzle and cut-off....	13.00
C	Pump with agitator and anchor complete, one 8-ft. bamboo-iron extension, with nozzle and cut-off, and 20 ft. of our Essex spray-hose, all fitted.....	15.50

IRON PIPE



Description	List	Fig.	With Cut-off and Single Nozzle
6-ft. Extension Rods	\$1.10	375-A	\$2.50
8-ft. Extension Rods	1.35	376-A	2.75
10-ft. Extension Rods	1.60	377-A	3.00
12-ft. Extension Rods	1.90	378-A	3.30
14-ft. Extension Rods	2.25	379-A	3.65

BEAN HIGH-PRESSURE SPRAY HOSE



Prices, 8c to 20c per foot.

All Prices Subject To Change Without Notice



Fig. 70

HAND POWER HORSE CLIPPING AND SHEEP SHEARING MACHINES

Progressive Up-to-Date Farmers and Horse Owners Everywhere Recognize the Advantage of Clipping Horses

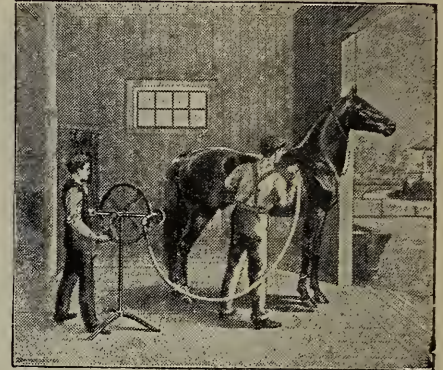
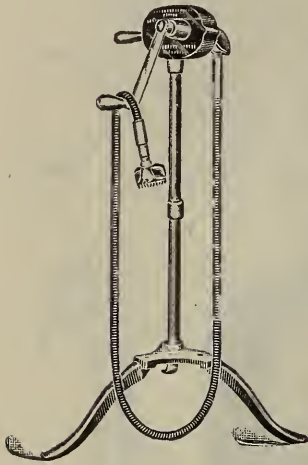
STEWART No. 1 EN-CLOSED TYPE BALL-BEARING CLIPPING MACHINE

LATEST MODEL.

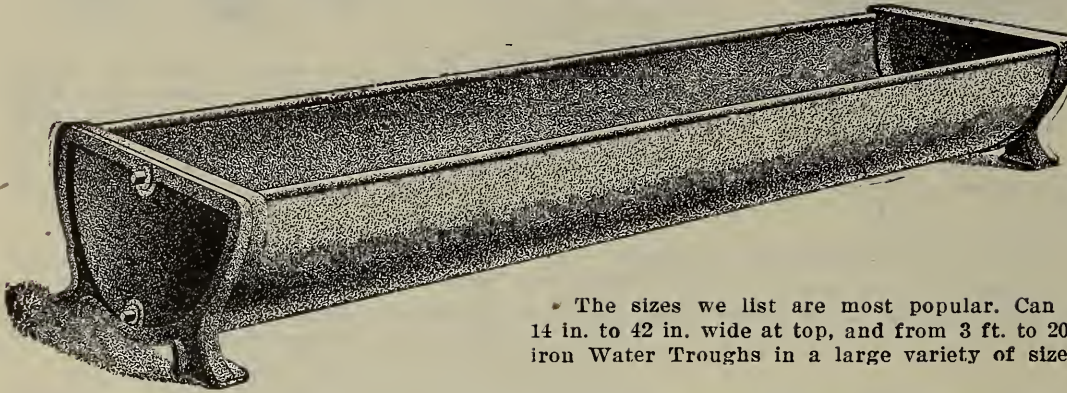
Has new style rigid base; tubular upright. All gears are cut from solid metal and are enclosed in a dustproof metal box. They run constantly in a bath of oil, which reduces friction to a minimum. All wearing parts are hardened tool steel. New type, light, easy running, flexible shaft, 6 feet long. Complete, with one set of Stewart's 1-nut tension knives. Weight, boxed, 36 lbs. Price, each, \$8.50.

1902 CHICAGO CLIPPING MACHINE STEWART PATENT

Has positive power; rigid base; fine, strong crank handle; 6½-foot flexible steel shaft. All gears are cut from solid metal, and wearing parts all tool steel hardened. Can be turned with either right or left hand. Complete, with one set of Stewart's 1-nut tension knives in case. Weight, boxed, 56 lbs. Price, each \$12.00.



RIVETLESS STEEL TROUGHS



They are 18 inches wide at top, 10 inches deep and have a capacity of 8 gallons per foot.

No. 78— 3 feet long.....	\$5.00
No. 79— 4 feet long.....	5.50
No. 80— 5 feet long.....	6.75
No. 81— 6 feet long.....	7.75
No. 82— 8 feet long.....	9.50
No. 83—10 feet long.....	11.50

The sizes we list are most popular. Can furnish any size Trough from 14 in. to 42 in. wide at top, and from 3 ft. to 20 ft. long. Can also furnish cast iron Water Troughs in a large variety of sizes.

CAST IRON HOG TROUGHS



No seams for food to lodge in, and being easy to clean, there is no likelihood of foul, unhealthy odors. There is no danger of bursting from freezing, and the price is within the reach of all. These Troughs are very popular with all who use them. The width of these Hog Troughs at the top is 12 in. and at the bottom 2 in. the depth is 6 in. and the capacity per foot is 2 gals. They are made in lengths as follows: 2 ft., 2½ ft., 3 ft., 3½ ft., and so on, every half foot, up to 8 ft. Price, per ft., 50c.

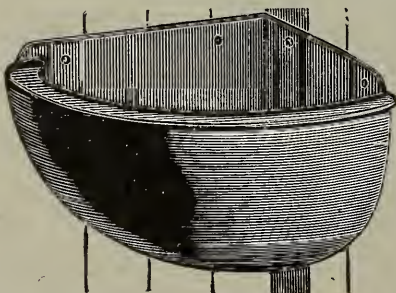
CRIMPED STALL GUARDS

2½-inch diamond mesh, No. 8 steel wire, with 1-inch channel iron frames. O. G. end, oval-banded top, screw holes, bottom and end. Six feet long. 25 inches high. Price, each, \$4.00. Square Crimped Wire Stall Guards, used for box stalls.

Give size wanted. Per square foot, 50c.

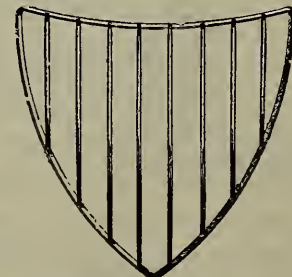
Square Crimped Wire Stall Guards over 25 in. wide. Per square foot, 60c.

CAST IRON CORNER MANGERS



No. 187 —15x15 in., 8 in. deep.....	\$1.50
No. 188 —16x16 in., 10 in. deep.....	1.65
No. 188½—17x17 in., 10 in. deep.....	1.75

WROUGHT IRON HAY RACKS



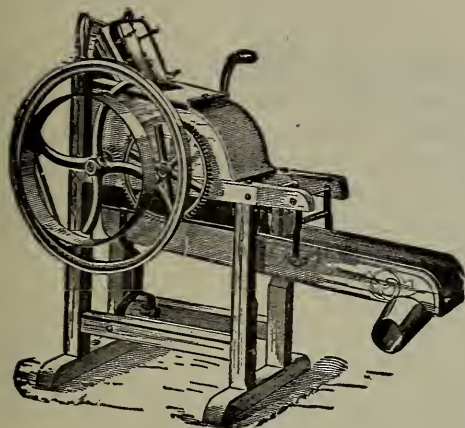
Well made and very serviceable. Price.....\$2.50

CAST IRON STALL GUARDS

Length, 6 ft.; height, 25 inches. Price.....\$5.50

Prices Subject to Market Changes.

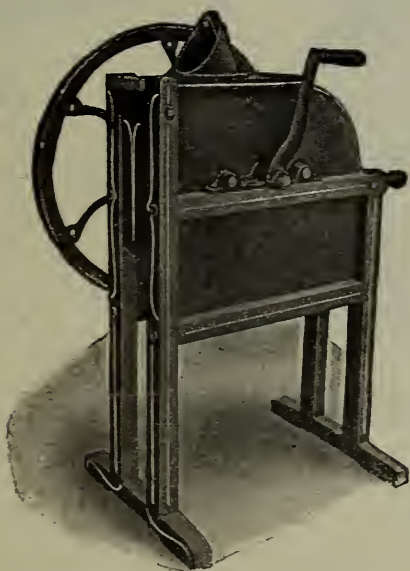
"BUCH'S No. 3" DOUBLE SPOUT CORN SHELLER



While this Sheller is used principally as a hand machine, still it is admirably adapted for light power and is provided with a pulley just for that purpose. We have made a leader of this Sheller for several years, and recommend it to our customers as a Sheller excelling in the matter of convenience and up-to-date workmanship. The parts throughout are of selected materials,

made extra heavy and very strong. Well put together and nicely finished. Cold rolled steel shafts and steel shaker pitman. Journal boxes are made in two parts and can be adjusted to take up wear. This Sheller does rapid work, having a capacity of 500 to 600 bushels per day. Price, with shaker, \$16.00.

"BUCH'S No. 2" SINGLE SPOUT CORN SHELLER



This very popular Sheller is well made, light running and will give good service. It has large balance wheel, with heavy rim and wrought iron spokes. The journal boxes are engine bored and bolted to hardwood frames. Handsomely finished. Separates corn from cob. Price, without sieve, \$7.50. With sieve, \$8.00.



"RED CHIEF" CORN SHELLER

This is undoubtedly the best Sheller of its class. It has a suitable device for adjusting it to take either large or small ears and do good work with either. It readily attaches to barrel or box and is just the thing for persons who have but a small quantity of corn to shell. Price.....\$1.75

"RED CHIEF" GRINDING MILLS



Does rapid work. Will grind meal or crack the grain any desired size. Strong, durable and neatly made.

Prices:

No. 0—Without flywheel	\$2.75
No. 1—With flywheel	3.75
No. 5—Without stand	4.50
No. 10—With stand	5.50

CLOTHES WRINGERS

2nd grade, 10-in. roll, wood frame.....	\$3.50
2nd grade, 10-in. roll, iron frame.....	2.50
1st grade, 10-in. roll, wood frame.....	3.75
1st grade, 12-in. roll, wood frame.....	4.75
1st grade, 12-in. roll, iron frame.....	3.75

EVERY- BODY'S ROTARY WASHING MACHINE

THE BEST THING YET

Well constructed, of good material. Will wash the most delicate fabric as well as the regular weekly wash. A boon to the housewife. Easy to operate, nothing to get out of order. Price, \$7.00.



ELECTRIC WELDED WIRE HOOPS, VIRGINIA WHITE CEDAR TUB, ROLLER BEARINGS.

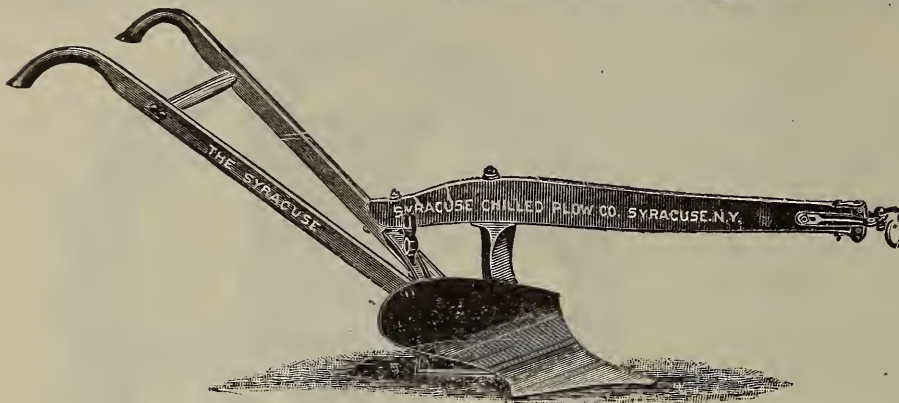
This is the lightest-running and easiest working Washing Machine made. Roller bearings; no friction. Works in both directions. Very simple; nothing to get out of order. Nicely corrugated on sides and bottom. Hoops are galvanized wire and are welded by electricity; these are much stronger than the old-style flat hoops, and CANNOT DROP OFF, being sunk in grooves. Our special price, \$7.00.

POWER WASHERS

Prices on Application.

All Prices Subject To Change Without Notice

SYRACUSE CHILLED PLOWS



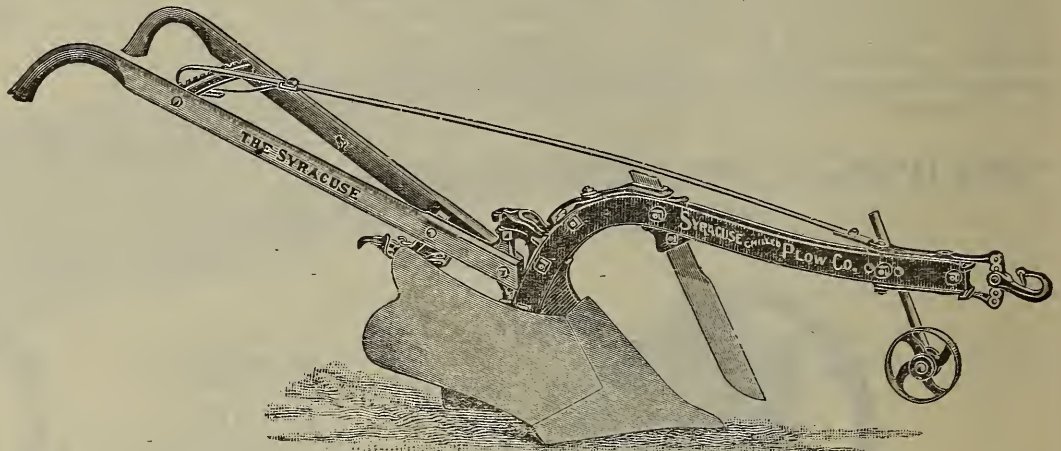
These Plows are constructed on the same principle as the 2-horse Plows. They have chilled wearing parts, sloping landsides, adjustable beam and clevice, and are strong in construction. They are well adapted for general purpose work in light soils, and leave a clean, open furrow.

Size		Furrow	Weight	Price
No. 44 —Right Hand.	Very Light One-Horse,	2-4 inches deep, 6-8 inches wide.	44 lbs.....	\$6.50
No. 50L—Right Hand.	Light One-Horse.	2-4 inches deep, 7-9 inches wide.	59 lbs.....	7.75
No. 51L—Right Hand.	Medium One-Horse.	2-5 inches deep, 8-10 inches wide.	65 lbs.....	8.75
No. 52L—Right Hand.	Large One-Horse.	3-5½ inches deep, 9-11 inches wide.	73 lbs.....	10.00

SYRACUSE HILL SIDE PLOWS

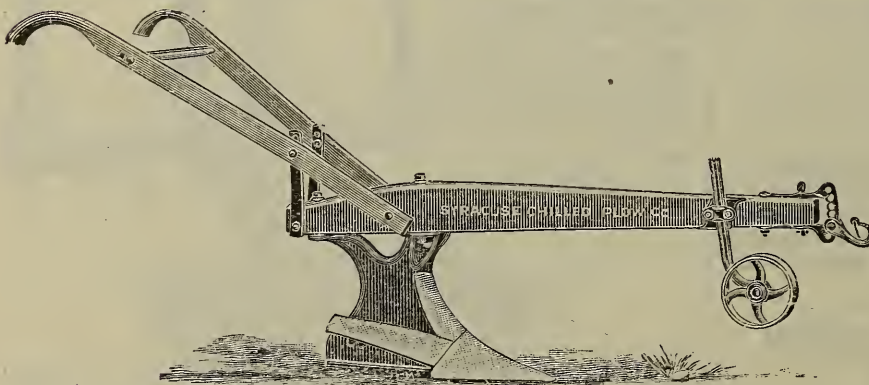
The Best Line of Hillside Plows on the Market.

The accompanying cut illustrates the No. 812 Hillside Plow, with straight colter. It is furnished with colter or jointer, as desired. This is the latest and best Hillside Plow the company has offered. Steel truss beam, combining lightness and strength, excellent working qualities, automatic jointer or colter.



Size		Furrow	Weight	Price
No. 821—Medium Two-Horse.	Steel Truss Beam.	4-7 inches deep, 10-14 inches wide.	145 lbs.....	\$18.00
No. 6L—Two-Horse.	Steel Truss Beam.	4-6½ inches deep, 10-13 inches wide.	146 lbs.....	15.56
No. 26—Light Two-Horse.	Wood Beam.	4-6 inches deep, 8-10 inches wide.	100 lbs.....	11.25
No. 36—One-Horse.	Wood Beam.	3-5 inches deep, 7-8 inches wide.	77 lbs.....	8.75
No. 46—Small One Horse.	Wood Beam.	2-4 inches deep, 5-6 inches wide.	40 lbs.....	5.75

SYRACUSE SUBSOIL PLOWS



Used with great success for many years

The Subsoil Plow is intended to follow in furrow of ordinary field Plow, loosening up the soil to a depth of 10 or 14 inches, and leaving the ground in the best possible condition to retain moisture. Price with wheel \$15.00. Weight, 100 lbs.

PARTIAL REPAIR LIST

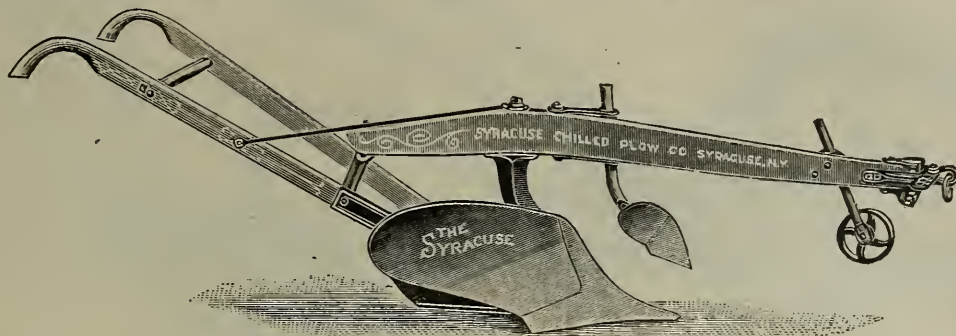
No.	Share	Mold	Land	Beam	Handles	
					Single	Pair
44	\$.25	\$1.60	\$.50	\$1.25	\$.60	\$1.35
50	.25	1.75	.60	2.00		
51	.30	2.25	.65	2.10		
52	.30	2.75	.75	2.00		
46	.25	1.50	....	1.50	

Prices are for Plain Plows, Wheel, \$1.25. Jointer, \$2.50 Extra.

All Prices Subject To Change Without Notice

SYRACUSE WOOD BEAM CHILLED PLOWS

We show on this page an illustration of the leading series of the Syracuse Wood Beam Chilled Plows. This Plow has chilled wearing parts, has sloping landside and leaves a clean, open furrow. It is excellently adapted for general purpose work in all kinds of soil. This Plow will do satisfactory work in hard ground when other makes fail. It is easily handled, and the style of the beam, clevis, wheel and jointer is such that the adjustment is easy and accurate. The wheel and jointer standards are wrought steel and will never break. Note that there is plenty of room between jointer standard and plow standard, so that there is no choking. Remember that Syracuse Plows are guaranteed to do work equal to any Plow on the market.



THE 500 AND 600 SERIES

This is a later series of Plows, which have gained great popularity wherever introduced. It includes the numbers which are mentioned below. All the wearing parts are chilled and they have sloping landside. The shin is one piece, with the share so that you have a new shin whenever you put on a new share. We believe that this series is destined to become the most popular of all.

PRICES ARE FOR PLAIN PLOWS

Right Hand	Left Hand	Size	For wheel, add \$1.25.	For jointer, \$2.50.	Furrow	Weight	Price
No. 601	No. 501—Large Two or Three-Horse.	5½-8 inches deep, 12-16 inches wide.				127 lbs.	\$13.50
No. 602	No. 502—Medium Two-Horse.	5-7 inches deep, 11-14 inches wide.				110 lbs.	13.00
No. 603	No. 503—Light Two-Horse.	4½-6½ inches deep, 10-12 inches wide.				99 lbs.	12.50

PRICE LIST OF PLAIN PLOWS

Right Hand	Left Hand	Size	For wheel, add \$1.25.	For jointer, \$2.50.	Furrow	Weight	Price
No. 53	—One or Two-Horse	2-4 inches deep, 6-8 inches wide.				76 lbs.	\$11.50
No. 54	—Light Two-Horse.	4-6½ inches deep, 9-13 inches wide.				98 lbs.	12.50
No. 56A	No. 96—Regular Two-Horse.	5-7½ inches deep, 11-14 inches wide.				113 lbs.	13.00
No. 57	No. 97—Two or Three-Horse.	6-9 inches deep, 13-16 inches wide.				115 lbs.	14.75

One-Horse Syracuse Plows are illustrated and described on page 56.

SOME SPECIAL POINTS OF MERIT ON SYRACUSE WOOD BEAM PLOWS

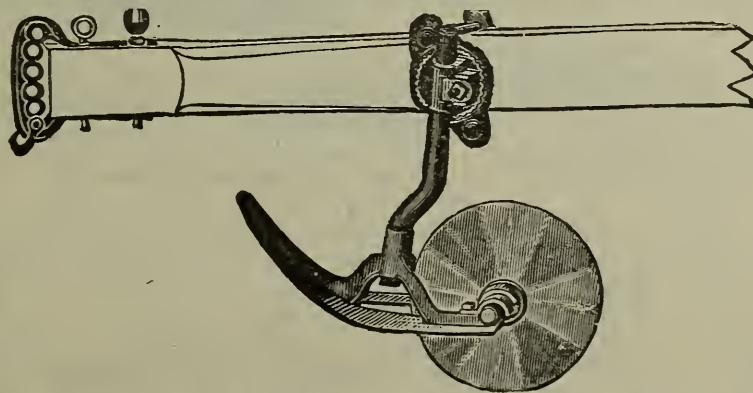
All beams adjust at the back, making it less necessary to disturb the clevis. Double adjustment of clevis. Long center beam bolt and handles connected at the center of plow, and handle crossbar extends out to brace moldboard. Wrought steel wheel and jointer standards, with an easy and accurate adjustment, and which give plenty of room for the trash to feed away so that the plow will not choke. The best of material and superior chilling of the wearing parts. The result is The Best Plow on Earth.

PARTIAL REPAIR LIST.

	Share	Mold	Land	Beam	Handles—	
					Single	Pair
No. 53.....	\$.40	\$3.00	\$.75	\$2.00	\$.55	\$1.50
No. 54.....	.45	3.25	.85	2.25	.65	1.75
Nos. 603, 503, 95.....	.45	3.50	.90	2.25	.65	1.75
Nos. 602, 56A, 96, 502.....	.50	3.75	1.00	2.25	.65	1.75
No. 601, 57, 97, 501.....	.50	3.75	1.10	2.25	.65	1.75

Slip and Cutter Shares, 15c extra. Slip Noses, 15c each.

THE GENUINE MOON ROLLING COULTER



WILL FIT ANY MAKE OF WOOD OR STEEL BEAM PLOW.

This Coulter enables an ordinary walking plow to turn perfectly any growth of vines or weeds, matted and tangled growth of any kind, without clogging, because of the patented shoe or gauge in the center of which the coulter revolves. This shoe presses down all weeds and trash, and holds same firmly while being cut by the coulter. It is a perfect gauge as to depth (adjustable up or down), and no wheel or jointer is needed with coulter in use.

Remember this—Do not order these coulters according to size of other rolling coulters used. Order them by the numbers, No. 1, 2 or 3. Because, while the ordinary rolling coulter cuts only within two or three inches of the center, the Moon Coulter cuts within one inch of the center of the disc.

The No. 1 Moon Coulter (8 inches) is equal and superior in capacity to the ordinary 10-inch coulter, the No. 2 Moon (10 inches) does the work of an ordinary 13-inch coulter, and the No. 3 Moon (12 inches) equals an ordinary 15-inch coulter in capacity.

Be sure and get the GENUINE.

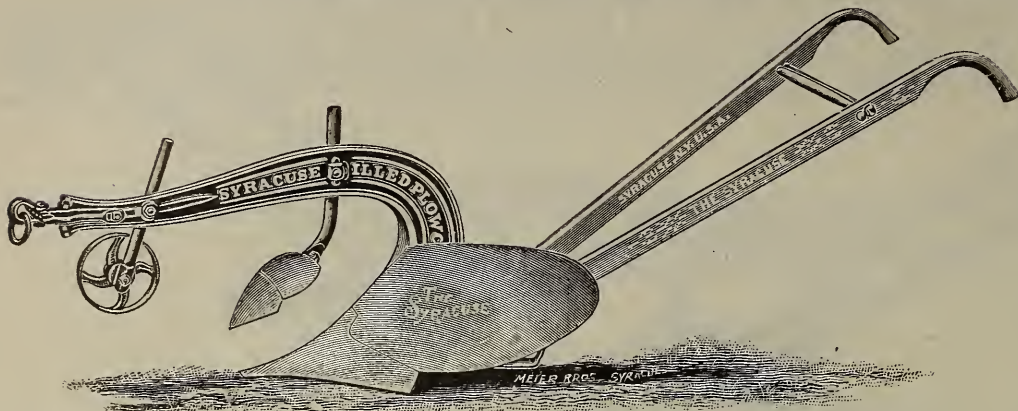
List Price, No. 1, 8-inch, equal in capacity to ordinary 10-inch coulter.....	\$4.25
List Price, No. 2, 10-inch, equal in capacity to ordinary 12-inch coulter.....	4.75
List Price, No. 3, 12-inch, equal in capacity to ordinary 14-inch coulter.....	5.50

(F)

Repairs—Axle, 75 cents; Journal, \$1.25; Pair Hubs, 50 cents; Disc only, No. 1, \$1.25; No. 2, \$1.75, and No. 3, \$2.00.

All Prices Subject To Change Without Notice

SYRACUSE IRON BEAM CHILLED PLOWS



This style of Plow is unequalled for hard and stony ground, and will stay in the ground where all others fail. The wearing parts are all of the best chilled iron, the jointer and wheel standards are steel. The jointers will not clog in the rankest growth or thickest trash. These Plows are heavier in weight than the wood beam, but they are preferred by a great many of our best plowmen on account of their strength and the steadiness with which they run in hard and stony ground and the severe work they are capable of doing. The beam and standard of this style are in one piece, insuring solidity, and the beams are carefully set for correct plowing. The plows can also be nicely adjusted both ways at the

clevs. When you buy the Syracuse, you buy the Best.

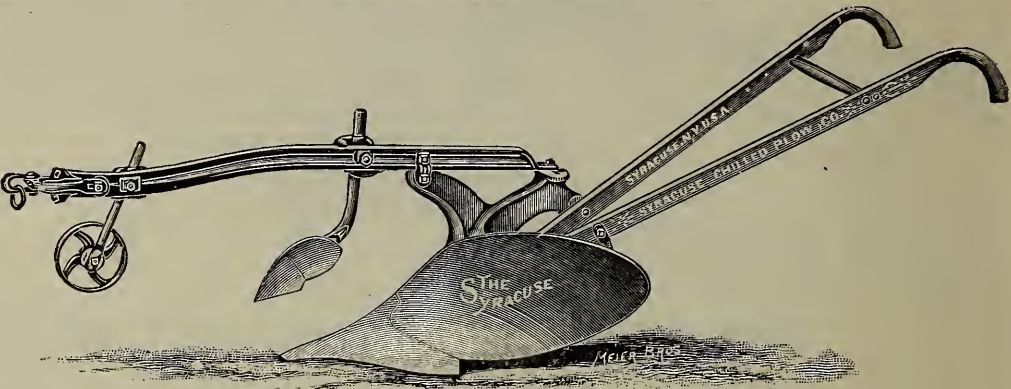
	Size	Furrow	Weight	Price
No. 3-78—Right Hand.	Light Two-Horse.	4-6 inches deep, 9-12 inches wide.	112 lbs.....	\$11.50
No. 2-78—Right Hand.	Medium Two-Horse.	5-7½ inches deep, 10-13 inches wide.	130 lbs.....	12.00
No. 1-78—Right Hand.	Large Two-Horse.	5-8 inches deep, 12-15 inches wide.	142 lbs. (Regular)	12.50
No. 10-78—Right Hand.	Three-Horse.	6-9½ inches deep, 14-16 inches wide.	167 lbs.....	14.50
No. 20-78—Left Hand.	Medium Two-Horse.	5-8 inches deep, 11-14 inches wide.	136 lbs.....	12.50
No. 30-78—Left Hand.	Three Horse.	6-9½ inches deep, 14-16 inches wide.	172 lbs.....	14.50

No. 1-78-HEAVY OR CONTRACTORS' PLOW

Similar to the No. 1-78, except that the wearing parts and beam are heavier, and it has two heavy iron braces running from the curve of the beam to the handles. This is an excellent Plow for general grading purposes. It turns the same furrow as the regular No. 1. Price, with wheel, \$20.00.

SYRACUSE STEEL BEAM CHILLED PLOWS

This cut illustrates the style of all the numbers mentioned below. They are well adapted for use in stony ground, except the No. 7. which works well in light ground. All the wearing parts are chilled, and the beams and handles are adjustable, the beams being adjustable at the rear end as well as at the clevs.



	Size	Furrow	Weight	Price
No. 7—Right Hand.	Medium Two-Horse.	5-7 inches deep, 9-12 inches wide.	130 lbs.....	\$14.00
No. 1-78—Right Hand.	Large Two-Horse.	5-8 inches deep, 12-15 inches wide.	145 lbs. (Contractors).	20.00
No. 15—Right Hand.	Three-Horse.	6-10 inches deep, 14-17 inches wide.	170 lbs.....	15.50
No. 22—Left Hand.	Medium Two-Horse.	5-8 inches deep, 11-14 inches wide.	132 lbs.....	15.00
No. 35—Left Hand.	Three-Horse.	6-10 inches deep, 14-17 inches wide.	170 lbs.....	15.50

PARTIAL REPAIR LIST

	Share	Mold	Land	Handles	
				Single	Pair
No. 3-78.....	\$.45	\$3.50	\$.75		
Nos. 2-78, 20-78.....	.50	3.25	.85	\$.65	\$1.75
Nos. 1-78.....	.50	3.75	all 75c but No. 7.	1.00	

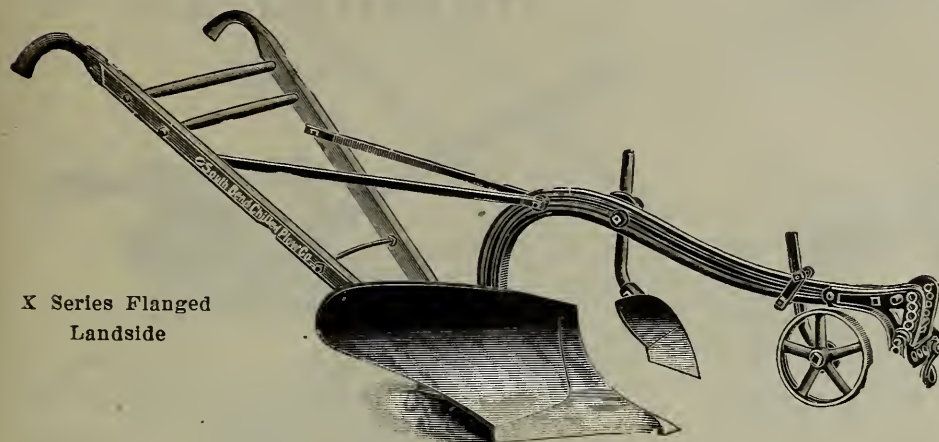
Slip and Cutter Share, 10c extra. Slip Noses, 15c each. Prices for Plows are Plain Wheel, \$1.25; Jointer, \$2.50 Extra.

REPAIRS FOR SOUTH BEND PLOWS

		No. Horse.	Shares.	Lands.	Handles, sets		Standards.	Wood Beams.	Shins.
Nos.	Shares				complete.				
62	Solid	1 H. R. H. only.....	\$.25	\$.35	\$1.15	\$1.50	\$1.50	\$1.25	.....
1B	Solid	1 H. R. H. only.....	.35	.50	2.00	1.50	1.65	1.50	.....
2	Solid	2 Horse.....	.40	.90	2.60	1.50	2.60	1.50	\$.25
2½	Solid	2 Horse.....	.40	1.00	3.25	1.50	2.60	1.50	.25
3	Solid	2 Horse.....	.40	1.15	3.25	1.75	2.85	1.75	.25
4	Solid	2 Horse.....	.45	1.15	3.50	1.75	3.00	1.75	.30
10	Solid	2 Horse.....	.45	1.15	3.65	1.75	3.25	1.75	.30
15	Solid	2 Horse.....	.45	1.15	3.65	1.75	3.25	1.75	.30
3	Slip	2 Horse.....	.45	1.15	.....	.....	.....	.....	.....
4	Slip	2 Horse.....	.50	1.15	.....	.....	.....	.....	.....
10	Slip	2 Horse.....	.55	1.15	.....	.....	.....	.....	.....
15	Slip	2 Horse.....	.55	1.15	.....	.....	.....	.....	.....

All Prices Subject To Change Without Notice

GENUINE SOUTH BEND X SERIES CHILLED PLOWS



X Series Flanged
Landside

for wear and scouring. By our process we entirely change the nature of the iron, making it in texture as fine as the finest steel, upsetting the grain, throwing it endwise through the mouldboard, landside or share, making the wear come the same as the wear across the end of a plank, instead of lengthwise of the grain, as with all materials used by other plow makers.

SECOND—The shape is such as to give light draft and insure excellent work, lifting the furrow on an easy turn, and placing it downside up, covering trash, weeds, etc., in a perfect manner.

THIRD—All workmanship and all materials used are of the finest. Our aim and ambition are to give the world at large the very finest plow in every particular, it has ever had.

FOURTH—All parts of the plows are perfect duplicates, so that an absolute fit is guaranteed on all extras, such as shares, mouldboards, landsides, etc.

The Flanged Landside is a great advantage to the purchaser who has difficult land to plow. It gives greater suction with a natural tendency to steady the Plow while running. The Landside is chilled on polished side and bottom, giving greater wearing surface which adds greatly to the life of the landside.

The South Bend Chilled Plow is widely copied. Be careful therefore to demand the genuine, the one that has created a world-wide reputation on its merits.

X SERIES PLOW WITH ROLLING COULTER AND WHEEL

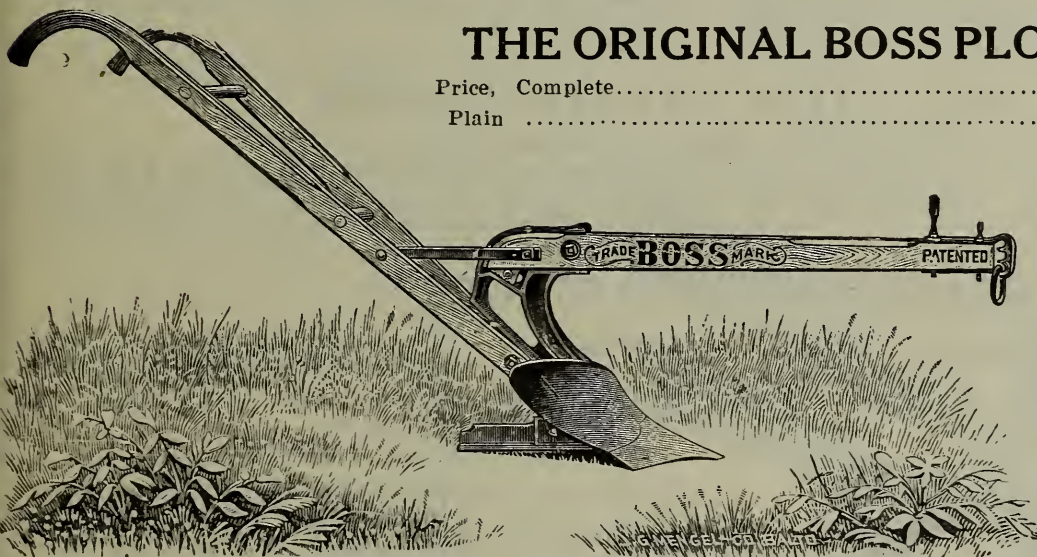
Get a genuine South Bend Chilled Plow of your dealer with the understanding it is on trial. Give it the hardest kind of test; compare it in actual operation with any other; keep a record of the amount of first-class work; compare lightness of draft; note how steady it runs and how easy to handle; how well it scours and how little wear. If you are not perfectly satisfied say so to your dealer. He guarantees the Plow and we are back of him. We Want to Impress These Facts Upon Your Mind:

FIRST—The Chilled Metal of which Genuine Chilled Plows are manufactured, is superior to any material ever used heretofore by any plow manufacturer in plows. This metal is made under Letters Patent, and has no equal

THE ORIGINAL BOSS PLOW

Price, Complete.....\$6.50

Plain 5.00



PRICE LIST OF OLIVER PLOW REPAIRS

No.	MOULDBOARDS	
A1- and A-2.....	\$1.05	
B and B Vineyard.....	2.15	
10-0	2.75	
13 and 13 Vineyard.....	3.00	
19	3.00	
20	3.50	
22	3.75	
40	3.75	
40 XX.....	4.00	
E-0, E-1.....	3.75	
3 X.....	3.75	
98	3.50	
99	3.75	
119	3.00	
120	3.50	
140	3.75	

No.	LANDSIDES	
A	\$.55	
B & B Vineyard.....	.75	
10 .....	.90	
13 & 13 Vineyard.....	1.00	
19	1.10	
20	1.10	
22	1.10	
3 X.....	1.10	
40 & 40 XX.....	1.10	
E	1.10	
98	1.10	
99	1.10	
119	1.10	
120	1.10	
140	1.10	

HANDLE BRACES

No. A.....	\$.45
Nos. B-10-13-13 Vineyard B Vineyard.....	.45
All other Handle Braces.....	.75

SHARES

WOOD BEAMS

STANDARDS

No. A-B-B Vineyard and	
10	\$1.75
No. 40 XX.....	2.50
All other numbers, wood.....	2.00
No. 22 Iron.....	4.75

No.		No.	
A	.....\$1.80	40	.....\$3.25
B	.....1.80	40	XX.. 3.75
B	Vin.... 2.75	E	.... 3.25
10	..... 2.75	119	.... 3.25
13	..... 2.75	120	.... 3.25
19	..... 2.75	140	.... 3.50
20	..... 2.75		

STEEL BEAMS

No. Vineyard	\$3.75
Nos. A, B, 10, 13 and	
Gooler	4.25
Nos. 19 and 20.....	5.00
No. 40.....	5.75

WOOD BEAM CLEVICES

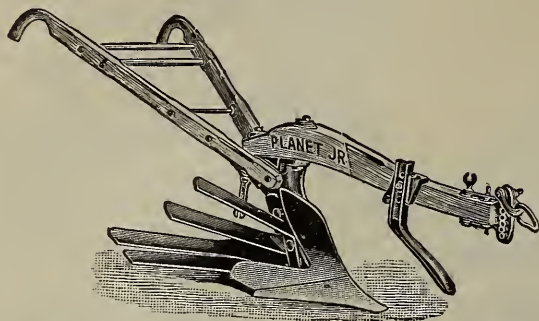
Marked "A" for One-Horse	
Plovers, Wood Beam....	.25
Marked "B" for Two-Horse	
Plovers, Wood Beam....	.35
Marked "D" for Three-	
Horse Plovers .....	.55
Shackles, Twisted .....	.15
Vrenches, 15c, 20c and	.25
Guide Pins.....	.05
Shackle Pins.....	.05
Links, Two-Horse.....	.05
Rings, One-Horse.....	.05

HANDLES

Per Pair and Single	
All numbers, per pair,	
loose	\$1.20
All numbers, single, each, 60c.	
Rounds, per pair.....	.10
L. S. Handle Plates.....	.10
In ordering Handles, state	
whether for wood or steel	
beam plows.	
Complete, Per Set	
No. A-B-10-0	\$1.50
No. 22, complete.....	3.00
No. 13, complete.....	2.00
No. B Vineyard	2.25
Nos. 98-99-119,120 and	
140	2.00
No. 113.....	2.00
Nos. 19-20-E, 40 and 40	
XX	2.00

All Prices Subject To Change Without Notice

THE IMPROVED "PLANET JR." WHITE POTATO DIGGER

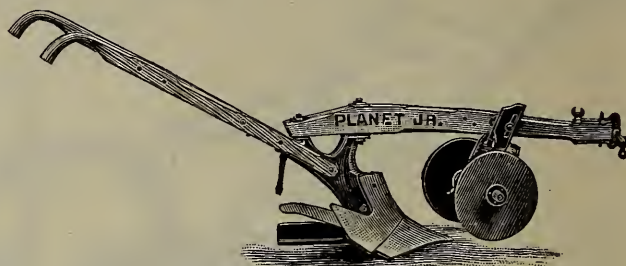


The "Planet Jr." White Potato Digger has been greatly improved recently. Instead of a digging head of tines it now consists of successive shares, which cut the furrow turned on edge by the front share and moldboard into horizontal slices, throwing the vines and weeds to one side and pushing the potatoes to the surface.

Doubtless you would like us to say how they compare with the various four-horse diggers on the market. To answer this, the "Planet Jr." White Potato Digger is equal to any for digging early, when the vines are green, the potatoes fast to them and the ground clean. A little later on, when the vines are dead and the ground fairly free from weeds, the four-horse diggers do better work in some cases, the crop being picked up more easily after them. At a later stage, when the fields grow very grassy and weedy, the four-horse tools are almost useless, while the "Planet Jr." even then does its work fairly well. If compelled to use but one digger the season through, the "Planet Jr." is the best.

It costs but one-fourth or one-fifth as much, takes less than half the power to draw it. **DOES NOT SKIN THE POTATOES**, digs faster and costs about one-twentieth as much for repairs, and it will last almost a lifetime, with a few new shares and landsides. Packed weight, 143 lbs. Price, \$22.50.

THE "PLANET JR." SWEET POTATO DIGGER



This tool has been the standard in sweet potato districts for many years. It has been improved recently, and we know of no digger that will give equal satisfaction.

For small farms, where both white and sweet potatoes are grown, some farmers use it for white potatoes also, by removing the wheels and setting the moldboard to the proper pitch. While not at all equal to our regular White Potato Digger for this purpose, it is of advantage in getting out a crop. Packed weight, 140 lbs. Price, \$24.00.

JUNIOR POTATO DIGGER

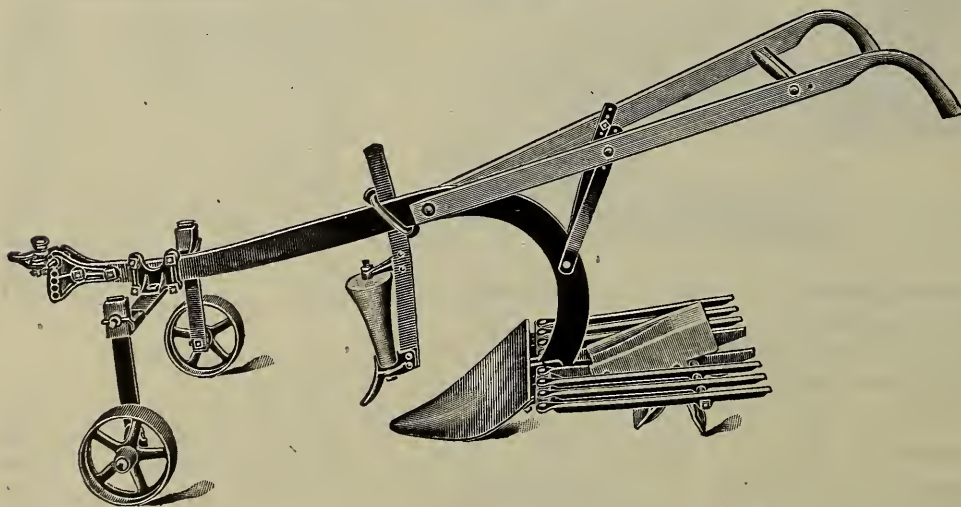
Where a small or medium size crop of potatoes are to be plowed up, this tool is highly recommended. Made out of very best material, in a modern manner, and gives satisfaction wherever it is used.

Price, \$11.00.

WIDE ELEVATOR POTATO DIGGER

No. 155 is the big machine with 32-inch wheels, and elevator 22 inches wide, 60 inches long—a Digger for all conditions, heavy and light. No. 155 has been thoroughly tested in two seasons and has been sold extensively in many large potato growing sections. We have in this Digger many improvements not to be found in any other Digger. 22-inch elevator, 32-inch wheels, 42½-inch tread, including lugs. Drives with great power. Wide, long elevator. Separates thoroughly without injury to the crop. Has fine adjustment for the plow. Includes four-horse equipment and neckyoke. Packed weight, 1005 lbs. No. 155. Price, \$112.00.

SHAKER POTATO DIGGER



Steel beam. Natural temper steel blades. Provided with weed fender and gauge wheel. The Shaker Digger has a perfectly flat blade and will not cut the potatoes. The rod grating is hinged at the front and is given an up-and-down shaking motion by the sprocket wheel at the rear. This shakes the dirt off from the tubers and leaves them clean and whole on top of the ground. The weed fender is intended to clear away weeds and vines, preparing the way for the blade. The Digger is shipped with gauge wheel and fender, unless ordered without. Price, \$18.00; without forecarriage, \$15.00.

STEELS

Sizes Shovel Plow Steels, for Single and Double Shovel Plows.

DRAG BLADES—4 in.x7 in., 4½ in.x7 in., 5 in.x8 in. **D. S. BLADES**—5 in., 5½ in., 6 in., 6½ in., 7 in. wide. 8 in., 10 in. and 11 in. long. **S. S. BLADES**—All sizes from 8 in. to 18 in. wide by 11 in. to 16 in. long. In 1 and 2 hole. **CALF TONGUES**—1½ in., 1¾ in., 2 in. wide by 8 in. long. **BULL TONGUES**—1¾ in., 2 in. and 3 in. wide by 11 in. long.

Above can be furnished in 1 or 2 hole.

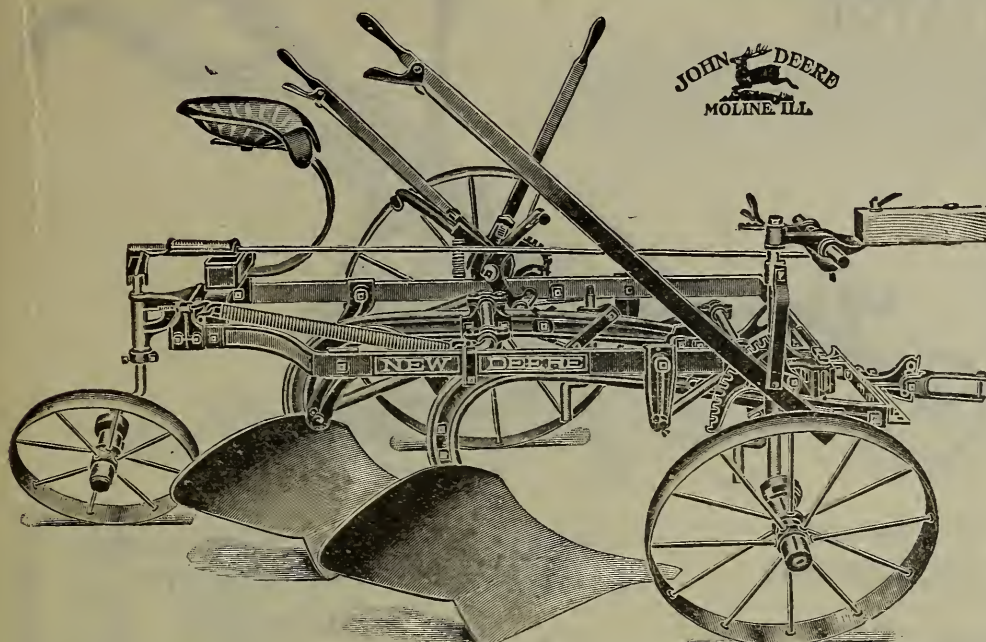
Full and complete line of polished steels for Single and Double Shovel Plows made in both one and two-hole styles. Genuine Malta Double or Single Shovel Plow Steels, per lb., 8½c. Farmers' Favorite Triple Shovel Plow Steels, per lb., 8½c. Farmers' Favorite Single and Double Shovel Plow Steels, per lb., 7½c. Bolts for Shovel Plow Blades, each, 5c. Four Shovel Plow Steels, 3-in., each, 7c. Four Shovel Plow Steels, 3½-in., each, 8c. Shovel Plow Fender, 35c.

SHOVEL PLOW HANDLES

Finished, for Single or Double Shovel Plows, complete with round and rod, per set, 75c. Finished without round and rod, per pair, 65c. Finished and bored, right and left, each 35c.

All Prices Subject To Change Without Notice

JOHN DEERE WHEELED PLOWS



NEW DEERE GANG PLOW

(Patented February 3, 1903)

The new Deere Gang represents the most advanced development in the construction of Riding Plows. It combines all the desirable features tending to make a successful Gang Plow, with beam draft and automatic action.

A slight pressure of the foot releases the plows and permits them to drop into the ground, point first, where they find their depth immediately.

The depth of the furrow is adjusted by raising or lowering the furrow-wheel, and the plows are leveled in the opening furrow, after which no further handling of the levers is necessary.

The lifting device is entirely automatic in action. The plows are hung on a double bail, front and rear, their weight is counter-balanced by a heavy coiled spring, and their action is entirely independent of the frame.

Our foot-lift requires only a comparatively light push of the foot to throw the plow entirely out of the ground when in motion, the draft of the team furnishing most of the lift. When standing in the furrow the added weight of the furrow-slice requires a stronger push of the foot, especially when plowing very deep

or in extra heavy, tough soil. To aid in the lift under such circumstances we have added an auxiliary hand-lever, a very light pull on which serves to lift the plows under any conditions. The aid of this lever being required only on special occasions, provision is made to throw it out of action, except when needed, by lifting the lever from the notch in the foot lever, casting and throwing it forward, where it will remain until brought into play by the hand. Sometimes when plowing on a cold day the driver likes to get off and walk. Then he wants a hand-lever that he can easily reach to throw the plow out of the ground. Our hand-lift lever provides for such contingencies.

The device for locking the plows in the ground is located at the lifting-lever, and is a simple elbow action by which, when the center is passed, the harder the ground, and consequently the greater draft, the more securely are the plows held to their work. This is a special advantage in fall plowing in hard ground. By turning a set-screw this elbow joint may be left loose if desired, allowing the plow bottoms freedom to lift when striking an obstruction. In stony or rooty ground this will sometimes save the point of a share.

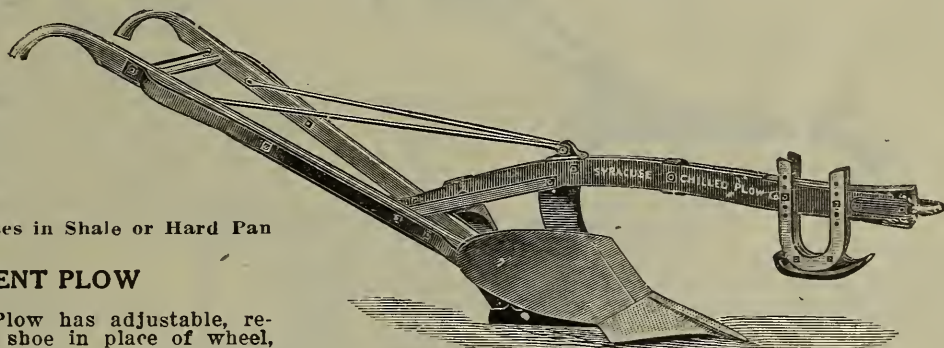
No. 99 SYRACUSE CONTRACTORS' PLOWS

The No. 99 Plow is very strongly built, has slight turning capacity, steel truss beam, steel moldboard and landside, separate shin piece, heavy overlaid wrought steel point, adjustable shoe in place of wheel, loop wear irons on handles. Used with 4 to 8 horses. Weight, 310 lbs. Price, \$35.00.

Suitable for Severe Grading Purposes in Shale or Hard Pan

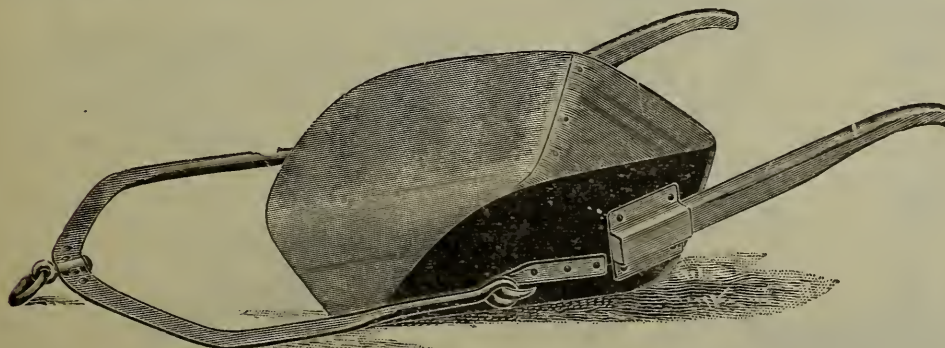
SYRACUSE PAVEMENT PLOW

The No. 98 Syracuse Pavement Plow has adjustable, reversible bar steel point, adjustable shoe in place of wheel, loop wear irons on handle, strongly built throughout. Especially adapted for tearing up cobblestone or macadam pavements. Used with 4 or 6 horses. Weight, 263 lbs. Price, \$25.00



No. 1 CONTRACTORS' PLOW

This Plow is somewhat similar to the regular No. 1-78, and is described more fully on page 74. Price, with wheel, \$20.00.



THE CELEBRATED SYRACUSE DRAG SCRAPER

THE CONTRACTOR'S FAVORITE

No.	Capacity	Length	Width	Depth	Weight	Price
3.	3 cu. ft.	30 in.	27½ in.	9 in.	85 lbs.	\$6.50
2.	5 cu. ft.	31 in.	28 in.	10½ in.	95 lbs.	6.25
1.	7 cu. ft.	33 in.	32 in.	11½ in.	105 lbs.	6.00

All Prices Subject To Change Without Notice

No. 8 "PLANET JR." HORSE HOE AND CULTIVATOR

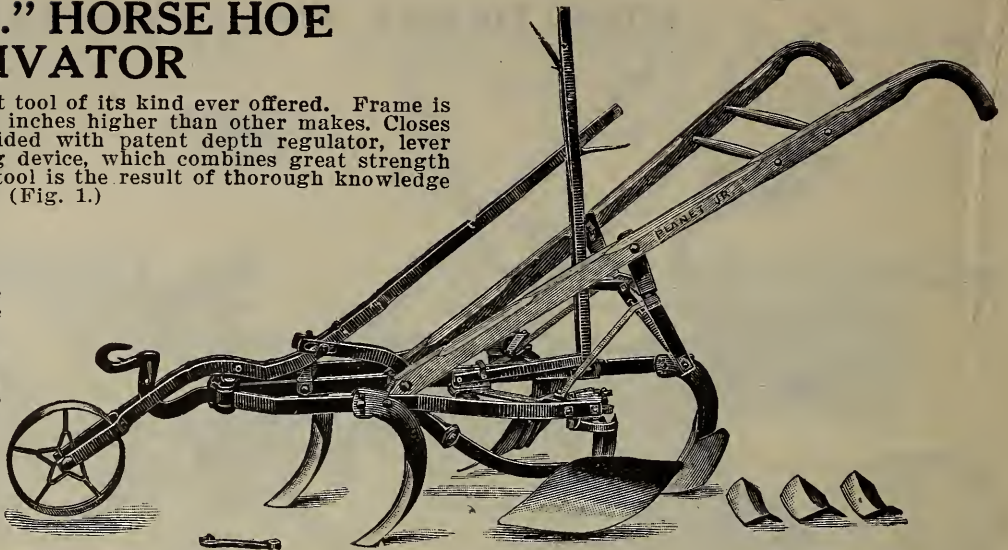
This is the best and most perfect tool of its kind ever offered. Frame is of stiff steel, extra long, and 1 or 2 inches higher than other makes. Closes to 9 and opens to 25 inches. Provided with patent depth regulator, lever wheel and improved lever expanding device, which combines great strength with stiffness and simplicity. This tool is the result of thorough knowledge of both farming and manufacture. (Fig. 1.)

No. 7 PLANET JR. HORSE HOE AND CULTIVATOR

This tool is the No. 8 without the depth regulator. It works the same as No. 8, but lacks the perfect steadiness and control of depth made possible by the depth regulator.

No. 9 PLANET JR. HORSE HOE AND CULTIVATOR

Identical with the No. 8, except that it has no depth regulator, and plain wheel instead of lever wheel.



No. 9 PLAIN CULTIVATOR

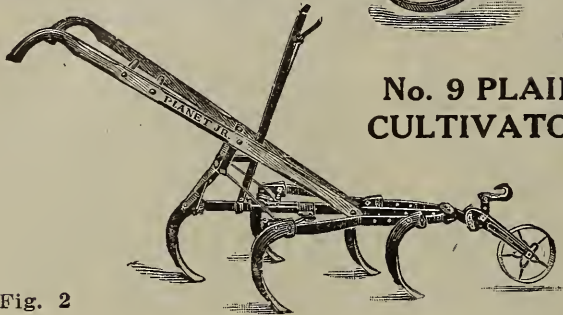


Fig. 2

(Fig. 2.) This tool is shown by the opposite cut. It is light and very strong; every feature about it is the very best and latest. It can be used with or without the wheel.

"Planet Jr." tools are not the lowest priced, but are absolutely the best--therefore the cheapest.

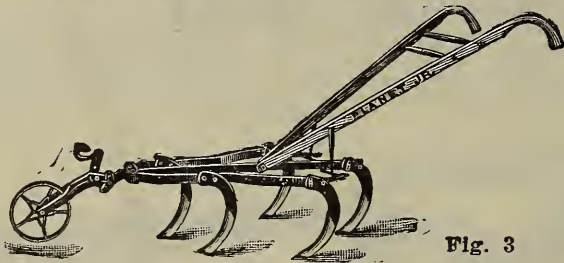
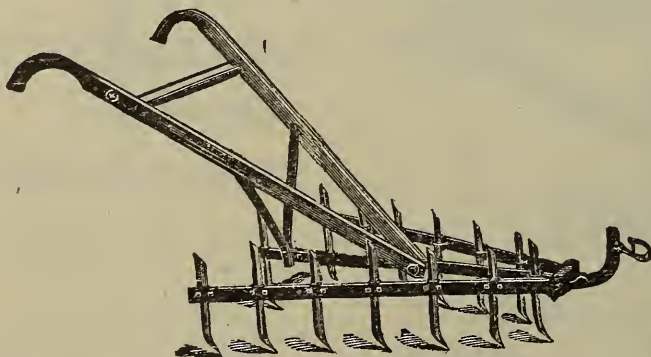


Fig. 3

PRICE LIST

No. 8—Horse Hoe and Cultivator, complete.....	\$11.50
No. 7—Horse Hoe and Cultivator.....	11.00
No. 9—Horse Hoe and Cultivator, with wheel.....	10.00
No. 9—Horse Hoe and Cultivator, without wheel.....	8.75
No. 4—Horse Hoe and Cultivator, with wheel.....	8.75
No. 4—Horse Hoe and Cultivator, without wheel.....	7.50
No. 9—Cultivator, with wheel.....	8.75
No. 9—Cultivator, without wheel.....	7.25
No. 4—Cultivator, with wheel.....	7.00
No. 4—Cultivator, without wheel.....	5.75

FOURTEEN-TOOTH COMBINED HARROW AND CULTIVATOR



This is a very useful tool, which can be made to do a variety of work. The teeth are set in different positions. Desirable for first cultivation. Price, plain, \$4.00; with lever, \$4.75.

"PLANET JR." TWELVE-TOOTH HARROW, CULTIVATOR AND PULVERIZER



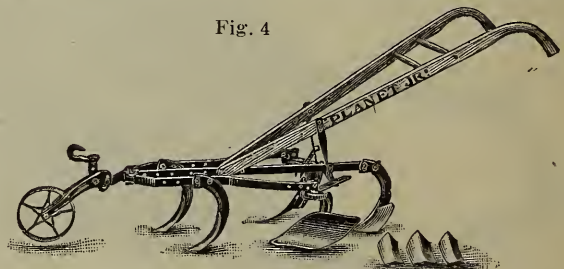
This tool has rapidly grown in favor among strawberry growers, market gardeners, truckers and farmers. This is because the 12 chisel-shaped teeth do such thorough work, and at the same time do not throw the earth on small plants, and because the tool is so convenient, durable and strong. With this tool you can do such a fine grade of work, and such a variety, that it is really a very valuable tool, and it will be to the interest of farmers to send for catalogue fully describing it. Price, complete, \$11.50; with wheel, \$9.50; plain, \$7.75.

No. 4 PLAIN CULTIVATOR

This popular tool, as illustrated (Fig. 3), has been stiffened and improved by new patent braces and expanders. Furnished either with or without wheel. This is an excellent Cultivator.

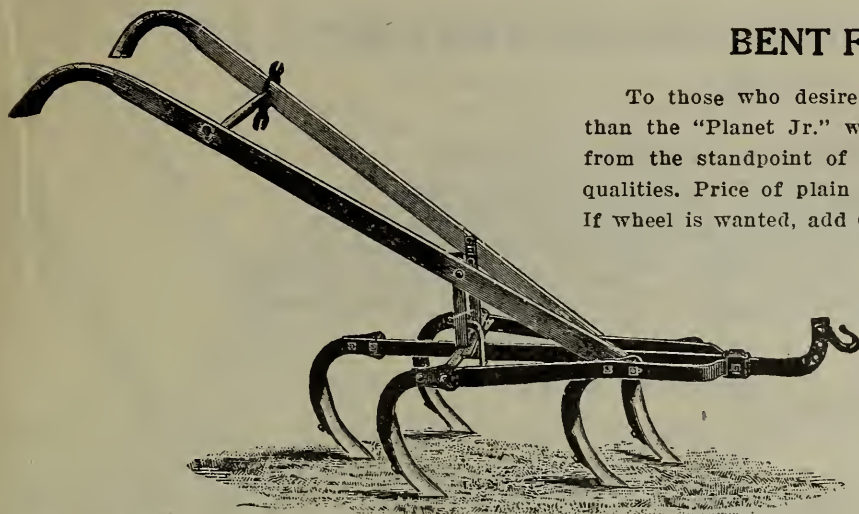
No. 4 "PLANET JR." HORSE HOE

Fig. 4



(Fig. 4.) This tool is low in price, strong and simple; provided with patent handle braces, firm, simple, strong, convenient. With these, the frame and handles seem almost like one solid piece. Changes in width are very quickly and easily made by the patent expanders, and one side may be opened wide, and the other closed. Furnished with or without wheel.

All Prices Subject To Change Without Notice



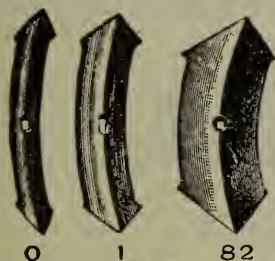
BENT FRAME CULTIVATOR

To those who desire a Cultivator a little lighter and lower priced than the "Planet Jr." we offer this one as a thoroughly reliable tool, from the standpoint of construction and material as well as working qualities. Price of plain Cultivator, \$3.50. Cultivator, with lever, \$4.00. If wheel is wanted, add 60c to either. Horse hoe attachments, \$1.35.

SUPERIOR CULTIVATOR

Similar to the above, but lighter; a good tool for light soil. Very popular with our trade. Price, \$3.00.

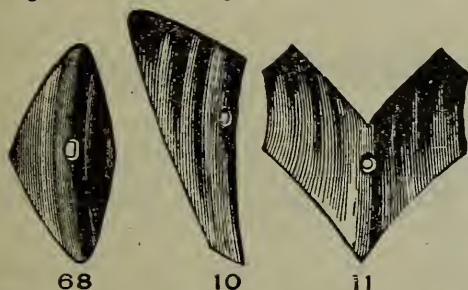
CULTIVATOR POINTS AND EXTRAS



No. 0—1½ in. wide.....	Each,	7½c
No. 1—2 in. wide.....	Each,	8c
No. 82—3 in. wide.....	Each,	8½c
No. 68—Oval or Jersey.....	Each,	9c
No. 10—Turn Shovels, either R. or L. hand	Each,	18c
No. 11—Turn Shovels, 6 in.....	Each,	18c

Horse Hoe Steels.....	per pair, \$	.45
Levelers for Cultivators.....	Each,	1.05
Wheels for Cultivators.....		.75
Cultivator Plate Bolts.....		.04
Cultivator Frame Bolts.....		.04
Cultivator Handles ...	Per pair,	.95
Teeth for Combined Harrow.....		.08½

GENUINE PLANET JR. EXTRAS



1¼x8 in. steels.....	12c	1¼x10 in. steels.....	17c
1¾x8 in. steels.....	13c	1¾x10 in. steels.....	18c
2¼x8 in. steels.....	14c	2¼x10 in. steels.....	22c
3 x8 in. steels.....	16c	3 x10 in. steels.....	24c
4 x8 in. steels.....	18c	4 x10 in. steels.....	27c
Horse Hoe Steels.....	Each, 70c	15 in. Furrower.....	\$1.50
Hind Shovels, 6 in.....	Each, 32c	Cultivator Roller	2.75

WHEEL CULTIVATOR "PLANET JR." PIVOT

The No. 76 is a comparatively new implement which combines in itself nearly all the advantages of our earlier one-row cultivators. The combination of the best parts of these tools makes a machine which is without a rival. The arch is 34 inches high, frame and tongue are steel, and the change in width of the wheels is easy. It has improved levers, and the gang frame is extra strong. The extra wide arch is very desirable. The draft is arranged to insure satisfactory work in all conditions of soil.

Improvements for 1917 are malleable pivots and steel axles, both practically dust-proof. Ratchets and pins are steel. Heavy extension springs balance the tool gangs and adjustable stops reset the tool instantly to the proper depth, without effort.

The Fourteen-spoke pivot wheels make the guiding a pleasure.

The seat is large and comfortable, adjustable up and down, back and forth.

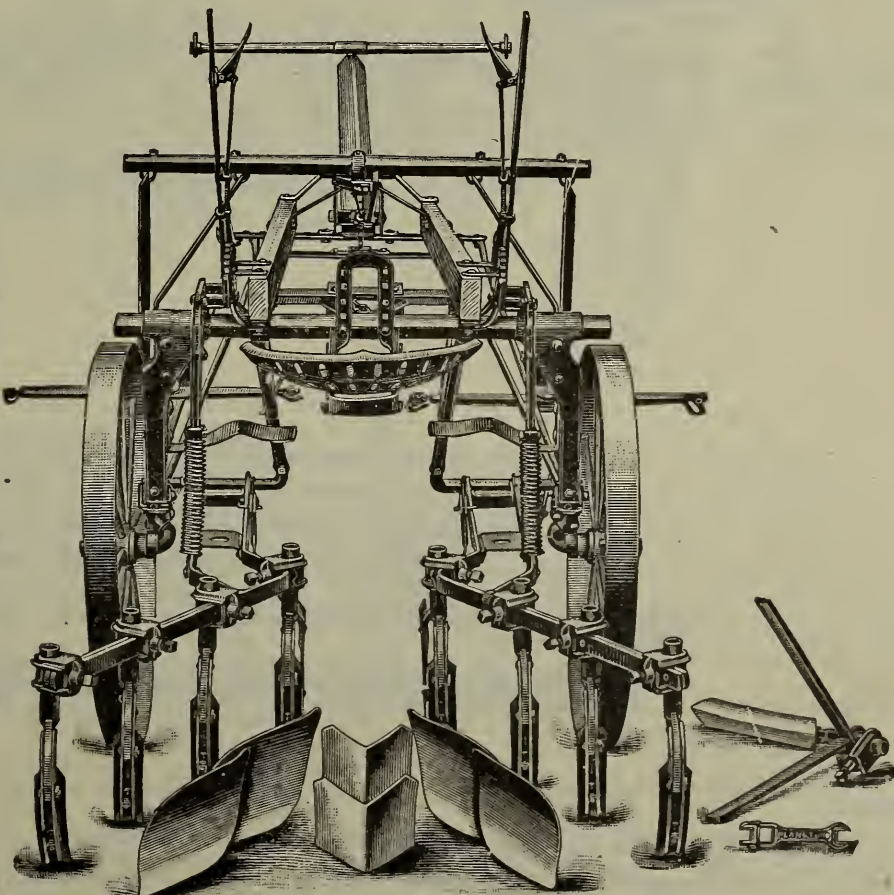
The new levers and springs regulate depth and pressure on the teeth.

The Central lever operates the hinged tongue, regulating the depth of the front teeth and leveling the machine; the same lever moves the teeth instantly, either closer to or further from the row, as desired, while the team is in motion.

Construction. All parts steel except a small percentage of malleable iron.

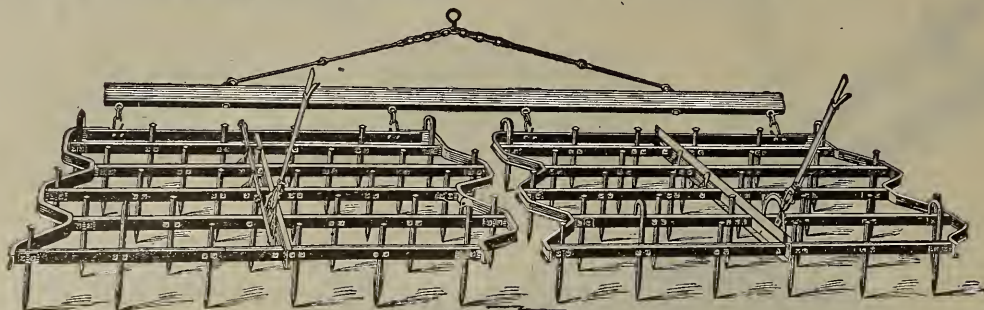
Roller bearings are worth far more than the \$6.00 extra.

They run true and easily, and the wear is so small they soon pay the cost. Price, \$45.00.



All Prices Subject To Change Without Notice

OSBORNE PEG TOOTH HARROW



Two-section Osborne peg tooth harrow, having 30 teeth to a section.

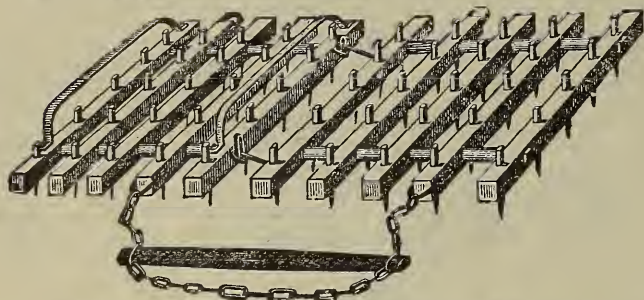
This harrow is built in sections with 25, 30 or 35 teeth to the section, either $\frac{1}{2}$ -inch square or $\frac{5}{8}$ -inch diamond-shaped teeth.

The Osborne peg tooth harrow is unusually strong for its weight. One reason for its great strength is that there are two stiffening bars in each section. The effect of these stiffening bars is to transmit any bending force, which may come on a tooth beam, to all of the other tooth beams in that section, making them all act together to resist bending. Thus it is practically impossible in ordinary work to bend a tooth beam on an Osborne peg tooth harrow. The tooth beams are very strong and are made of channel bar, thicker in the center than at the edges—a form which offers great resistance to twisting.

Teeth Are Securely Held

The teeth are held to the tooth bars by special steel clips which fit closely around the teeth, holding them into small notches in the edges of the tooth bars. These tooth clips are then drawn up tightly by means of two nuts which prevent them from working loose and make it practically impossible for a tooth to twist around, drop out, and become lost. Each of the steel teeth is complete in itself, well made, with a head formed at the top so that the tooth cannot drop through the clip. Four runner teeth are furnished with each section, and are used as transports when moving the harrow from one field to another, making it unnecessary to take the implement down and load it on a wagon.

DOUBLE HINGE HARROW



A 2-section wood frame Harrow, having 40 $\frac{5}{8}$ -in. square teeth. This Harrow also has runners, to make transportation easy. Price, \$10.00.

SPIKE HARROW TEETH

Square steel teeth, all sizes. Lb.....7c

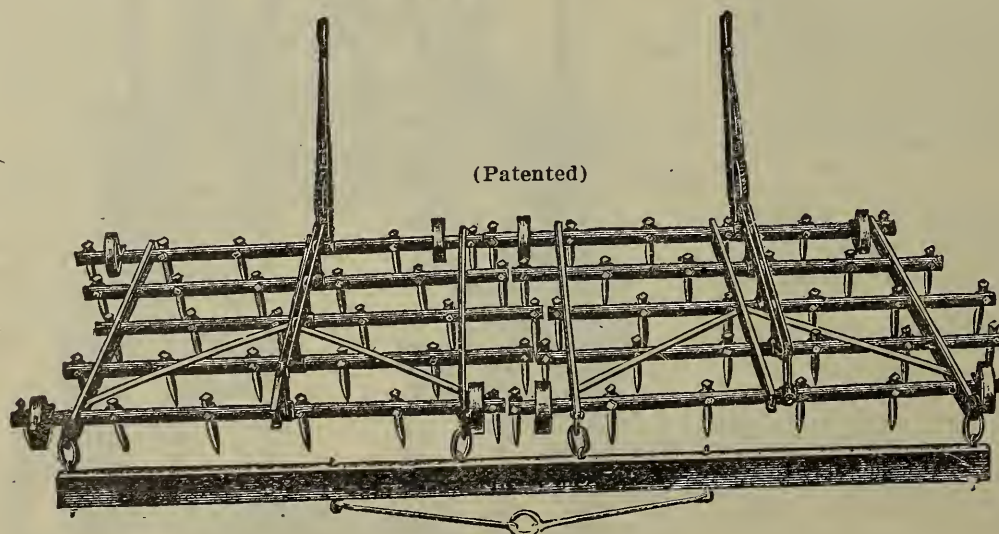
GARDENER'S HARROW

This Harrow is similar to the Baltimore Double Hinge Harrow, only it is made in one section instead of two. It is designed to be used with one horse. We furnish this Harrow with 30 teeth, which cuts 4 feet 6 inches wide, and with 25 teeth, cutting 3 feet 8 inches wide.

With 25 teeth.....List Price, \$9.00. Our Price, \$7.00

With 30 teeth.....List Price, 10.00. Our Price, 7.50

AJAX STEEL LEVER HARROW



The Ajax Steel Lever Harrow, owing to its lightness, flexibility and strength, commends itself to the trade and to the farmer.

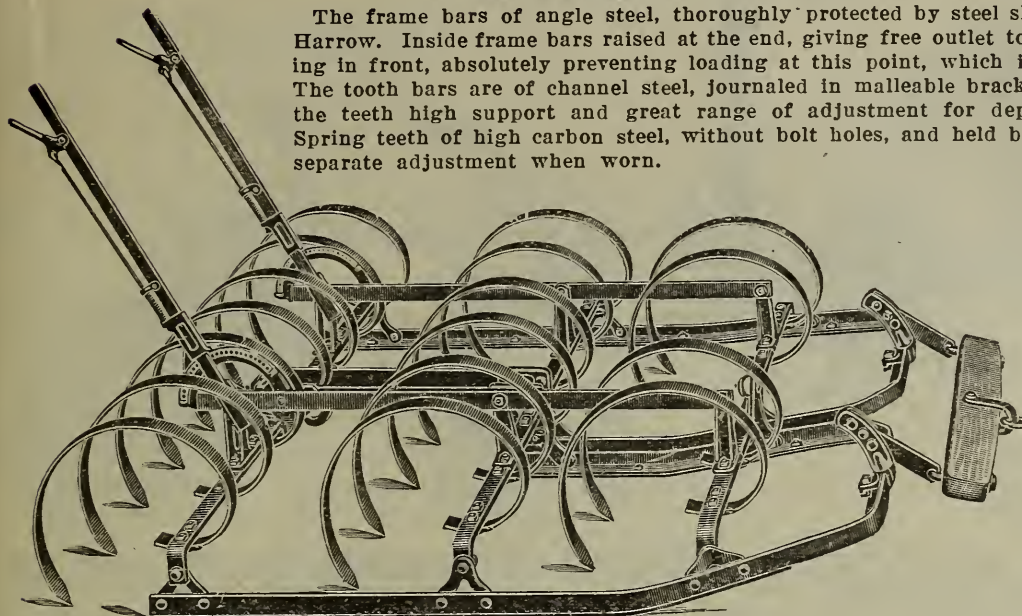
The tooth bars of the Ajax pass through and revolve in I-bars, which form cross-braces for the ends of each section. A longitudinal brace runs through the center of the section and diagonal bars pass to the front corners. This directness of connection between the parts insures simplicity while it gives great strength and permits the flexibility necessary for a perfect working harrow. Prices, 50-tooth, \$12.00; 60-tooth, \$13.50.

All Prices Subject To Change Without Notice

SYRACUSE LEVER SPRING TOOTH HARROW

The Best Working, Best in Construction and Best Wearing Harrow Made

The frame bars of angle steel, thoroughly protected by steel shoes, which double the life of the Harrow. Inside frame bars raised at the end, giving free outlet to trash. Frame with small opening in front, absolutely preventing loading at this point, which is so common with other makes. The tooth bars are of channel steel, journaled in malleable brackets above the frame, which gives the teeth high support and great range of adjustment for depth of cultivation and clearance. Spring teeth of high carbon steel, without bolt holes, and held by malleable holders, allowing for separate adjustment when worn.

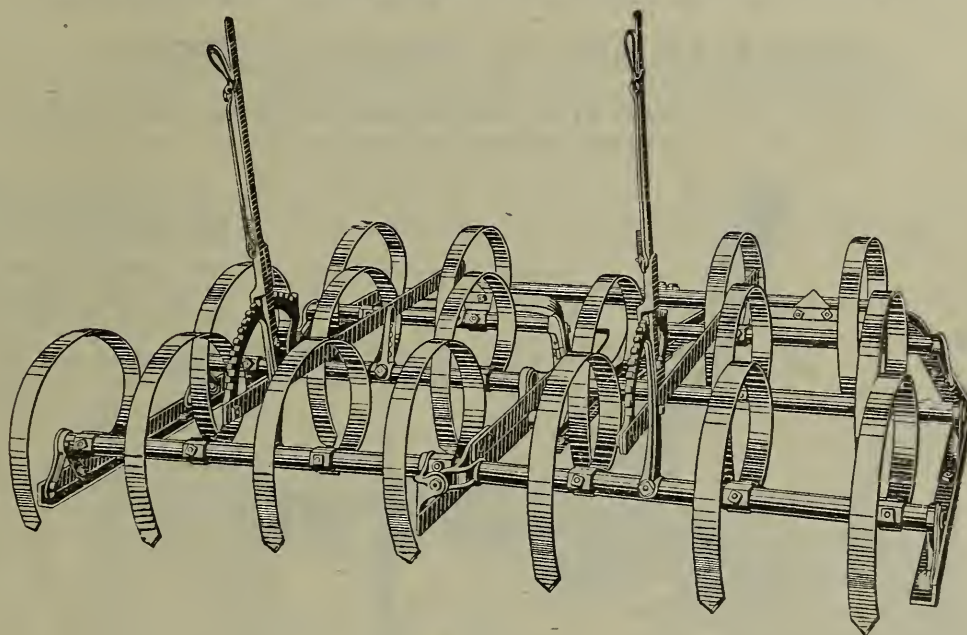


By use of the levers the teeth can be readily set deep or shallow, or can be thrown out of the ground to clear off trash and for dragging Harrow from one place to another. Central and direct draft without side motion; adjustable hitch so that the teeth at the front and rear can be regulated to work at the same depth. No Spring Tooth Harrow made is giving such universal satisfaction.

Prices:

15-tooth	\$18.00
17-tooth	20.00
21-tooth	23.00
25-tooth	27.00

OSBORNE SPRING TOOTH HARROW



Osborne Spring Tooth Harrow

Sizes

Osborne spring tooth harrows are furnished with 15, 17, 23, or 25 teeth. The 15-tooth harrow cuts 4 feet 5 inches, the 17-tooth cuts 5 feet 5 inches, the 23-tooth cuts 7 feet 5 inches, and the 25-tooth cuts 8 feet.

The Osborne spring tooth harrow fluffs the ground, allowing air to circulate through it. This is a great advantage in a backward spring as the ground becomes warmed quickly. It does good work in stony ground as it lifts the stones instead of trying to cut through them. It is the best implement for following the disk harrow.

The Osborne spring tooth harrow is built with an angle steel main frame which is made with an easy slope in the front, allowing it to pass over trash and small obstructions. The tooth beams are of large diameter steel pipe, rigid and strong, and offer great resistance to bending. They are located high from the ground so that most of the trash passes under them. The spring teeth and the tooth clips are of special design, made with a spanner grip, so arranged that the strain comes on the tooth beams rather than on the bolt. The teeth can be adjusted to take up wear. They are so spaced that each one does its full share of the work, none of the teeth in the rear trailing behind those in front.

The bottom of the frame is protected by a removable steel runner which can be replaced when worn out. Thus none of the wear comes on the frame. This steel runner is bolted on so that it is easy to replace it without cutting any rivets.

The lever quadrant has fine teeth for close adjustment. The adjustable hitch at the front of the harrow makes it possible to have all of the teeth cutting at the same depth, or to have either the front or the rear teeth cut deeper. When several sections are used they are hinged together so they follow the unevenness of the ground, cultivating the entire surface. One of the inner sections of the frame is cut away and raised high. This serves a two-fold purpose, to allow any trash that may be carried between the frames to clear itself, and, in addition, to keep the frame rigid, preventing sagging after long use.

At a slight additional cost reversible, double-pointed teeth can be supplied, which practically double the amount of usefulness that can be secured from one set of teeth.

All Prices Subject To Change Without Notice

OSBORNE DOUBLE DISK HARROW

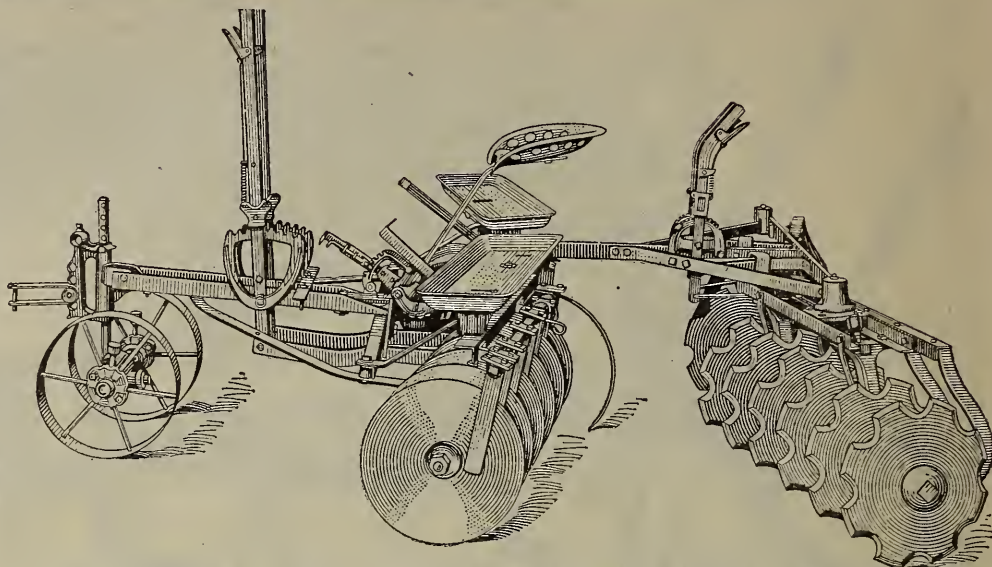
This is the implement to select for double-disking quickly. It consists of a regular Osborne disk harrow, either a bumper or a Rival, with an in-throw cutaway trailer harrow which fills the furrows made by the regular harrow and pulverizes the ground thoroughly. The trailer harrow is made with bearings of the well-known Osborne Rival type, with the oil pipes carried up to the top of the gang frames, where they are easily accessible from behind. Like the Osborne Rival, it has two levers, and the gangs can be set at different angles for sidehill cultivation. It is fitted with straps which keep the gangs level, and with steel scrapers to clean the disks.

The regular Osborne forecarriage is supplied with the Osborne double disk harrow.

The trailer harrow is built in 4, 5, 6, 7, and 8-foot cuts. It is so made that it can be fastened to any regular Osborne disk harrow, so that if you have one of these implements you can change it to a double disk harrow at any time by simply adding the trailer harrow.

The bearings on the Osborne bumper disk harrow have octagonal wood bushings soaked in oil. The upper and the lower bushings are exactly alike so that they can be reversed, securing four times the amount of wear of an ordinary bushing. The dust band on each end of the bearing excludes the dirt.

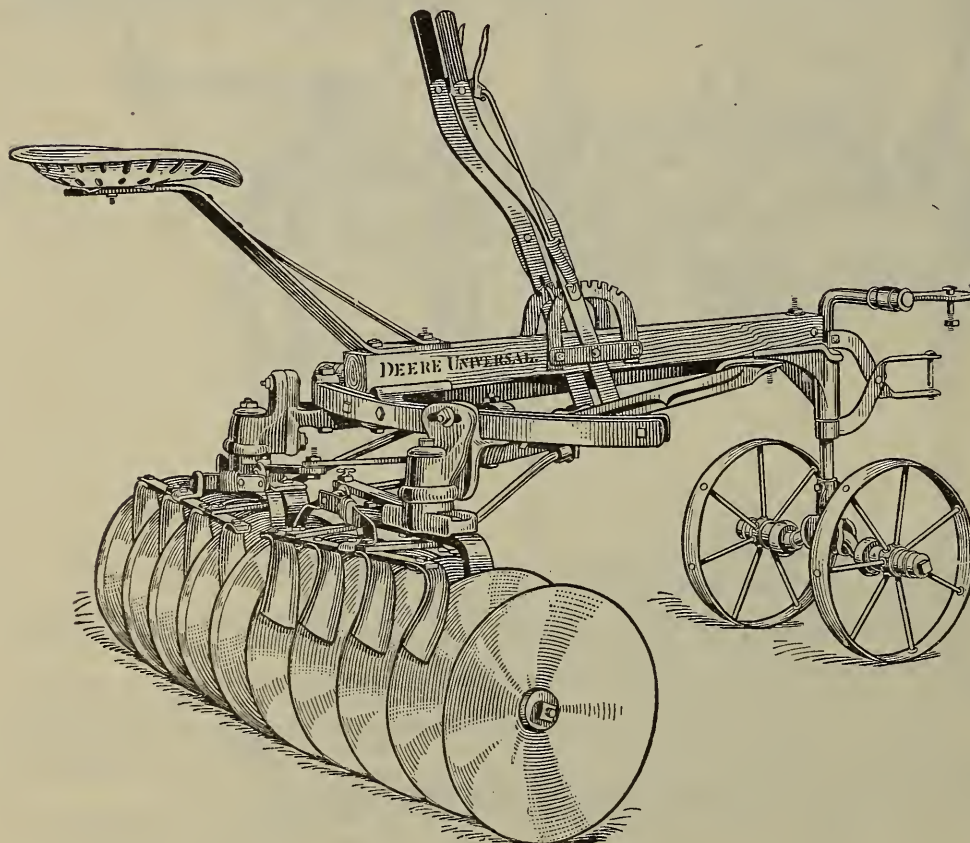
The curved set-lever bars and adjustable snubbing blocks keep the gangs working at the same depth, no matter at what angle they may be set. The scrapers are all steel and each can be adjusted independently. The scraper spring tension can be changed without tools.



PRICE ON APPLICATION

DEERE MODEL B DISK HARROW

A RIGID FRAME HARROW WITH END THRUST TAKEN ON THE BUMPERS
FREE ENDWISE MOVEMENT



To permit the bumpers to come together with the angling levers in any position, slotted couplings are formed on the bearing box castings which connect to the one piece main frame.

These slots allow the gangs to move endwise so that the bumpers may meet in the center. The bumpers are of sufficient diameter to protect the inner disks when the gangs are not evenly angled, as is the case when lapping lands or when working on a hillside. Bumpers of three sizes are furnished to correspond to the three sizes of disk blades, viz: 16, 18 and 20 inches. While the new bumpers are considerably larger in diameter than the old style, they are made thin in section and with a gradual taper, and are designed to act more as a reinforcement of the inner disk blade than as an ordinary bumper.

The end thrust is taken partly on the frame and partly on the bumpers, the principal strain being carried by the bumpers, except when the gangs are oscillating. Then the end thrust is transferred to frame.

The slots in the bearing castings, as can be seen from the illustration, permit the gangs to move toward the center freely and close the space at the inner ends when the gangs are first angled; and, as can be readily understood, this is accomplished without springing or straining the main frame.

Price\$28.00
Forecarriage, extra..... 4.50

MICHIGAN PATTERN REVERSIBLE HARROW TOOTH POINTS

Fastening device to the old teeth very simple, making any length desired. Points reversible. Has pulverizing qualities for any soil. Price, 20c.

SYRACUSE REVERSIBLE HARROW TOOTH POINTS Each 15c.

All Prices Subject To Change Without Notice

THE FULLER & JOHNSON STEEL FRAME BEMIS TRANSPLANTER

The machine can be thrown in and out of gear, greatly increasing its life. A ratchet clutch throws the mechanism out of gear when backing, saving water and avoiding breakage.

A strainer in the barrel prevents the valve from becoming clogged and the obstruction of free flow of water.

When in operation, the front truck can be locked so machine will run straight on the row. This does away with the wobbling side motion experienced where swivel or castor rollers are used.

The wheels are our own patent, 36 inches high, very strong, made with replaceable boxings and spokes, which can be easily replaced by any blacksmith in case of breakage. Wide tires reduce draft.

The droppers do not get off at the end of the row.

The tongue is joined like a wagon so there is no weight on the necks of the horses.

The entire machine is simple and very strong so that with proper care it will last for years.

The grower is independent of labor and free from a lame back.

SEND FOR SPECIAL CATALOGUE.

This machine has revolutionized tobacco setting, as there are now practically no large tobacco growers in the United States who set their plants by hand. It is also extensively used by market gardeners, nurserymen, etc. The supply of water can be regulated as conditions require.

We make a special potato planting attachment, and an extra large shoe for setting nursery stock. We also make an attachment for sowing fertilizer in the trench with the plants and a check rower attachment for use where cross cultivation is desired.

For planting on ridges we can furnish the machine with two-wheel front truck to straddle the ridge, and adjustable axles to raise the machine to conform to the height of the ridge. These axles provide for a variation of 5 inches in height of the machine.

The essential features of a transplanting machine, including the floating shoe, pressure plates, etc., are covered by our patents, and the working parts of our machine are so perfect that it is acknowledged by growers in all sections of this country, and in many foreign countries, that the Fuller & Johnson-Bemis Transplanter is the best.

The plants can be set when they are ready, no matter how dry the ground. In hand setting, plants are often set when too small or when too large, as they must be set when the weather is suitable.

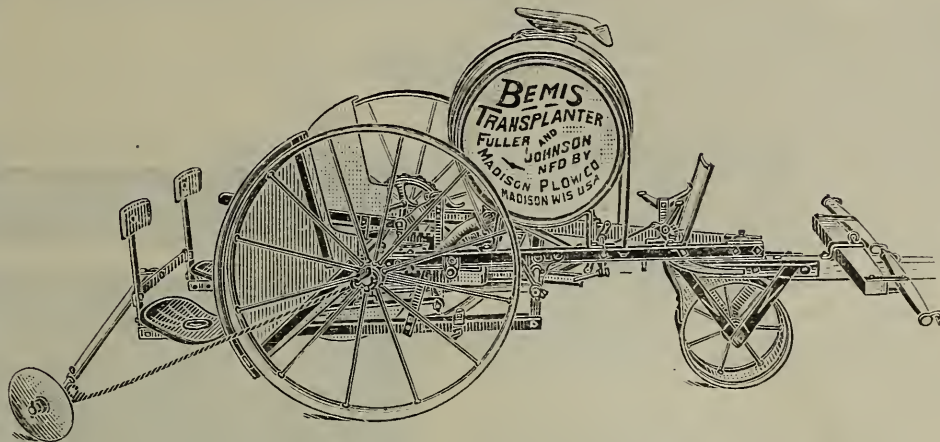
As there need be no delay in planting on account of dry weather, the ground can be carefully prepared just before planting so as to kill all the weeds. The planting is equal to once cultivating, as the machine stirs the ground in the row, killing the weeds.

The roots are not doubled up and the plants start better.

Even pressure is obtained on uneven ground by means of the floating shoe and pressure plates, which are independent of the shoe and of each other. This is the only successful device for this purpose used on a transplanter, and is covered by our patents.

Spring pressure can also be applied from the lifting lever if desired.

The earth is pressed about the plants by means of the hardened polished steel plates. The shoe is also made of hardened steel and finely polished.



REVERSIBLE DISC HARROW

An exclusive Deere feature is the adjustment for width of center. Other Harrows of this kind are limited to specific distances by holes in the frame bar, to which the pivot standards are secured, while in the Deere the width of the frame is the only limit, and any intermediate width can be obtained, because the pivot standard brackets are clamped on to the frame bar, and by loosening the bolts one can slide the brackets to any point desired.

The illustration shows the harrow set up at its widest adjustment and as an in-throw. Only two bolts have to be removed in changing the gangs from out to in-throw.

The reversibility and adjustability of the Universal Harrow make this tool indispensable to an owner of an orchard, vineyard or truck farm.

In addition to the other adjustments the gangs on the Deere Universal can be tipped up or down if it is desired to hill up the beds or for work in trenches. This adjustment is secured by means of notched castings and is made by loosening one nut on each gang. This feature fills a long felt want of cotton growers.

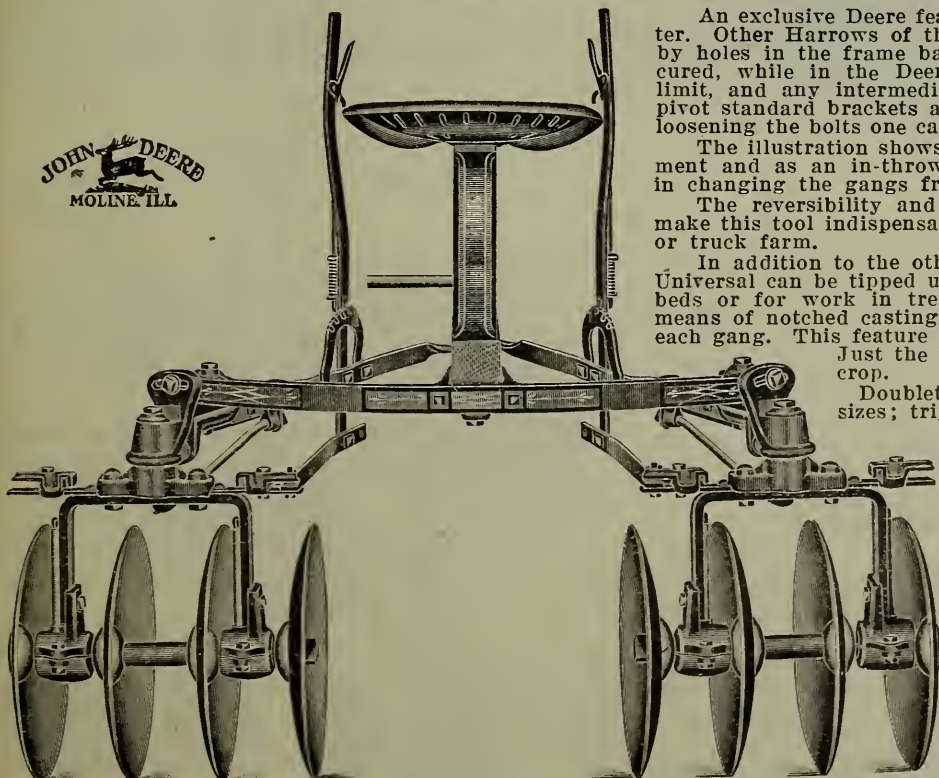
Just the thing for cotton beds, or in fact for any crop.

Doubletrees are furnished with the 4 and 5-foot sizes; triple trees and set-over irons with the 6-foot size. The angling levers are adjustable, to give the harrow all the suction desired when set up as either an in-throw or an out-throw.

All Universal Harrows are furnished with pole except Nos. U 140, X, U 143 X, and U 149 X, which have combination pole and shaft. The 3-foot size harrow is not furnished with scrapers and any of the other sizes may be had less scrapers at reduced price.

Price, complete, 10 discs, 16 in. \$28.00

Price, complete, 8 discs, 16 in. 26.00



All Prices Subject To Change Without Notice

CHAMPION STEEL FIELD ROLLERS

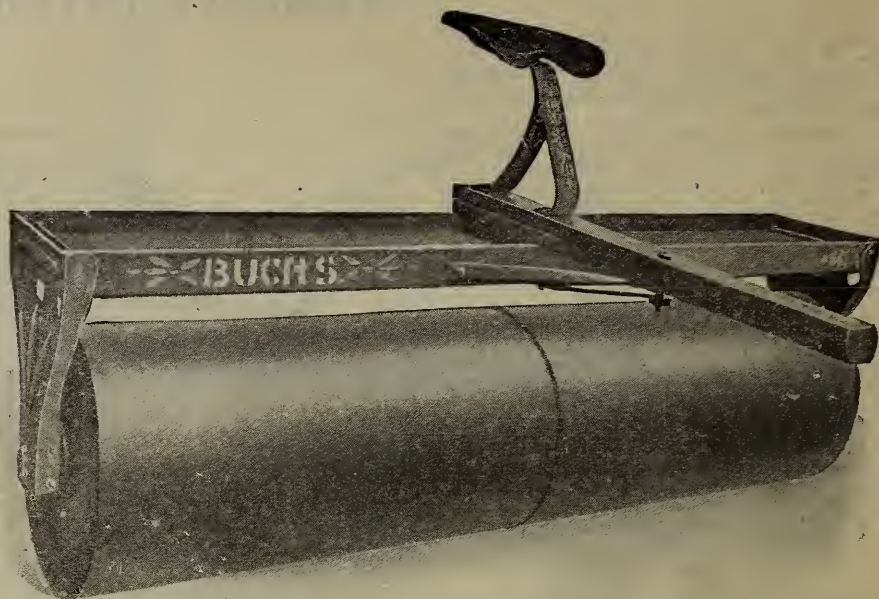
In offering our Champion Steam Field Roller we do so believing it to be the best Roller of its kind on the market. We call particular attention to the patent pressed steel head, which keeps the earth from clogging in the shells as in an open-head roller; also to the removable chilled bushing, which is bolted fast to the head, and which is a valuable feature, as they can be readily replaced by anyone at a trifling expense and saves the trouble and cost of sending the roller to the machine shop when the bearings are worn out. Diameter is 26 inches. Wood frame. No. 105, size 8 ft., 2 sections, weight 600 lbs., price, \$28.00. No. 106, size 8 ft. 3 sections, weight 630 lbs., price, \$28.00 and \$30.00.

Prices include double trees and neckyoke.

BUCH'S No. 105½ LAND ROLLER

The description of No. 105½ is identically the same as Roller No. 105, excepting that it has a steel frame instead of wood frame.

This Roller has our angle steel frame which makes it an all-steel roller, except the tongue. In this respect it may be said that it is a trifle more durable than the wood frame, as naturally the steel will outlast the wood. There is little choice between them. It is an excellent implement in every respect. Rollers Nos. 102½ and 107½, are of the same construction. Diameters, rolling surface and prices will be furnished on application. Material and workmanship are of the highest grade. With proper care it ought to last a lifetime as there is nothing to wear out but the wood journals, and these can be replaced at a trifling cost.

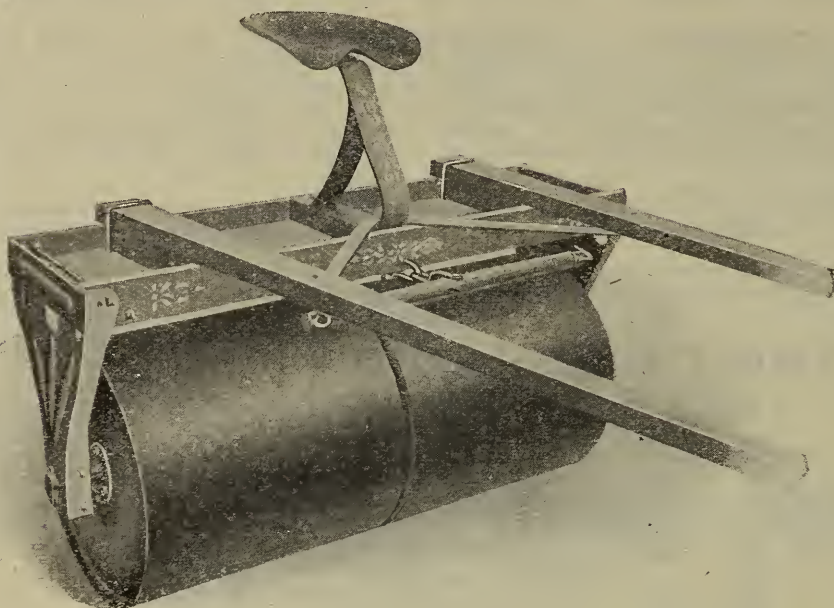


CHAMPION ONE-HORSE STEEL FIELD ROLLER

This Roller is designed especially for use on small farms and lawns. Made on same principle as the two-horse Steel Roller and is the most durable Roller of its class ever offered. Wood frame. Two sections, 24 in. diameter; width of roller 4 ft. 8 in.; weight 345 lbs. Complete with shafts and single-tree. Price, \$23.00.

SPECIAL ROLLERS

Prices on special rollers on application.



BUCH'S DOUBLE GANG CRUSHER.

This crusher is acknowledged to be a wonder in increasing crops. While a double Crusher, it can readily be changed to a single gang machine. By removing two bolts on each side the entire rear gang is left out. After inserting a bolt in the end hanger at each side connecting the two parts of hanger, you have the double Crusher converted to the single style. It pulverizes hard and lumpy earth, leaving it in narrow ridges—or proper condition for seeding.

The rear row of sections are placed on the axle so the sharp cutting edge mismatches the work done by sections in the front gang. The front gang is vertically adjustable independent of the rear.

In front we use 15 inch discs and in rear 12 inch discs. All discs are 4 inches wide.

Pole is strongly braced. Angles are 3x3x5/16 inch. Axles are 1½ inches round, all bearings are chilled iron. On the cast end hangers used on the front gang we have a projection against which the end hanger to the rear gang rubs when turning, making the turning feature more easy than with other similar machines.

HAND ROLLERS

Our Hand Rollers are smooth on face and aluminum finish—outer edges rounded. No wet grass or dirt will cling to them. The handles are counterbalanced, which keeps them always in right position. Removable roller bearings, which can be quickly and cheaply replaced. Weights precisely as listed.

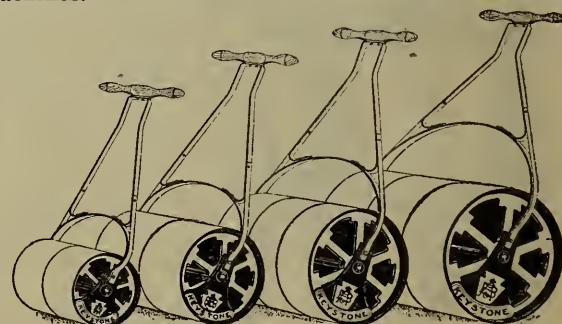
No. 301—15 in. diameter, 15 in. long, 2 sections, weight 150 lbs. Price, \$9.00

No. 303—20 in. diameter, 16 in. long, 2 sections, weight 225 lbs. Price, 11.50

No. 308—20 in. diameter, 30 in. long, 3 sections, weight 350 lbs. Price, 16.00

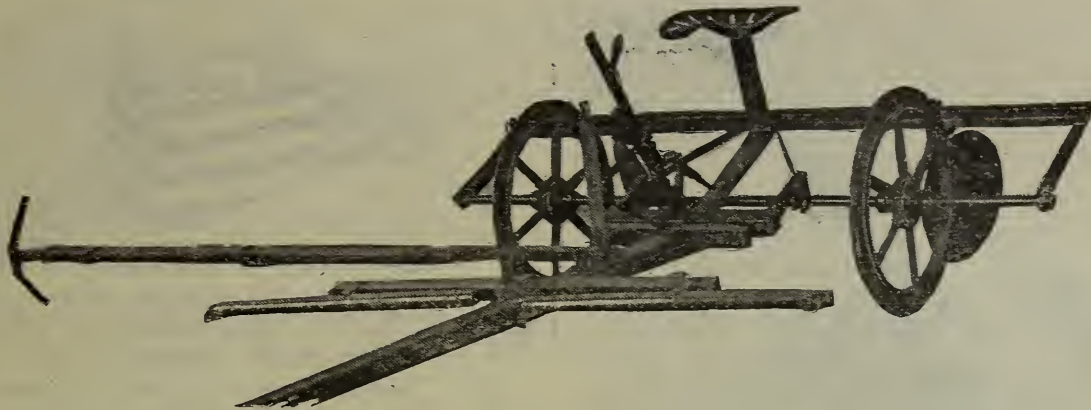
No. 311—24 in. diameter, 24 in. long, 3 sections, weight 450 lbs. Price, 21.00

We can furnish, on short notice, any of the above Rollers from 50 to 300 lbs. heavier, at an extra cost of 6 cents per lb.



All Prices Subject To Change Without Notice

THE WISDOM ROW-MARKER



In presenting the Wisdom Row-Marker, we have incorporated all the features of the No. 2 Haines and have also added an important one, wherein the operator can adjust the discs to any angle by means of a ratchet washer on disc arms. This arrangement is found only on the Wisdom. This feature alone can be readily appreciated by any practical trucker.

The marker will open rows from two feet to six feet six inches and is arranged so that the rows any width between these can be had by simply loosening two nuts and moving disc to just the width wanted. Can be adjusted the hundredth part of an inch if desired.

The Marker can be regulated to open rows to any depth required by the use of the lever in front of the operator and may be adjusted while the machine is in motion. The Marker is of light draught and easily controlled by a light boy, as it is not necessary for operator to dismount at ends of furrows to lift one pound.

The Marker is a perfect covering or listing machine, covering one or more rows as may be required.

The Marker is strongly built and equipped with marking-pole, double-trees and neck-yoke and the machine is under the control of the operator, who, by lowering or raising lever can adjust depth of furrow and raise disc from ground at ends of rows while turning without dismounting.

PRICE, \$28.00.

We also have the exclusive agency for the IMPROVED GILTZ MARKER

The GILTZ is a well-known marker throughout Anne Arundel Co., having been in use many years. This marker has been greatly improved by Mr. Giltz, the patentee, with the following features, first he has solved the problem of an absolutely dust-proof wheel hub boxing. The wheels are higher than any other marker made and are adjustable from two to six feet for covering and opening the furrows, and is elevated to a sufficient height to prevent main frame from dragging. The angle irons are made of heavy Carnegie steel, and will positively not bend. Be sure to see this marker before purchasing.

THE No. 2 HAINES ROW-MARKER, FURROWER AND COVERER



This style of Wheel Marker has solid cold rolled steel main axle that has but 2 holes drilled in it.

The Marker will open rows from 2 feet to 6 feet 6 inches, and is arranged so that rows any width between these can be had by simply loosening 2 nuts and moving disc to just the width wanted. Can be adjusted the hundredth part of an inch if required.

The Marker can be regulated to open rows to any depth required by the use of the lever in front of the operator and may be adjusted while the machine is in motion.

The Marker is of light draft and easily controlled by a light boy, as it is not necessary for operator to dismount at ends of furrows to lift one pound.

The Marker is a perfect covering or listing machine, covering 1 or more rows, as may be required, and is under perfect control of operator by use of lever that may be adjusted while the machine is in motion.

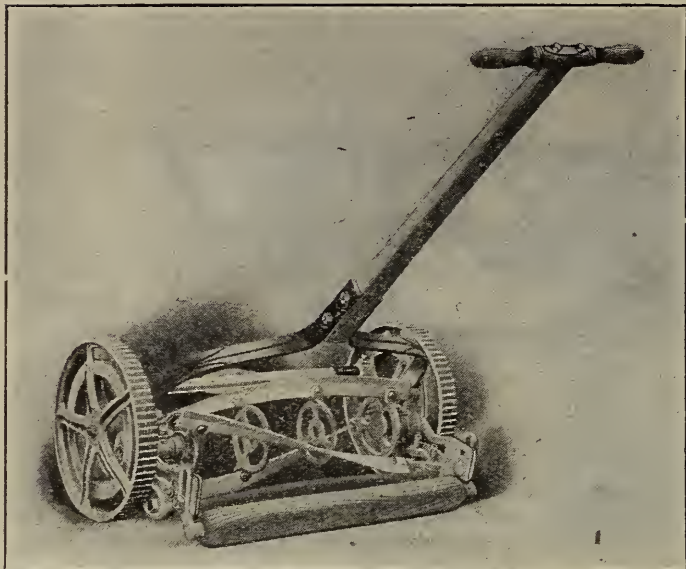
The Marker is very quickly changed from marking to covering; it is only necessary to loosen 2 nuts and move disc along to the required place and adjust. The machine is graduated with the different distances, that may be plainly seen by the operator.

The Marker is strongly built and equipped with marking pole, double trees and neck yoke, and the machine is under control of operator, who by lowering or raising lever can adjust depth of furrows and raise disc from ground at end of rows while turning without dismounting. Price, \$28.00.

REMEMBER, ALL OUR MACHINES ARE GUARANTEED

All Prices Subject To Change Without Notice

LAWN MOWERS AND SWINGS



THE LAKEWOOD BALL-BEARING MOWER

A first-class ball-bearing machine of sterling merit. Where a light machine is wanted, which is likely to be used by a lady or child, this is the machine to purchase. 14 in., \$7.00; 16 in., \$8.00; 18 in., \$9.00.

COLDWELL'S LAWN TRIMMER AND EDGER

The latest and best machine that we know of for trimming grass close up to the fence or wall, leaving a strip less than an inch in width, thus reducing hand work with shears to a minimum. It will also be found handy for trimming up around trees, under bushes, etc., and in cemeteries it will be a boon. It cuts 8 inches in width. This Lawn Trimmer is a high-grade machine in every respect, with self-adjusting ball bearings preventing any "end play," thus keeping the knives always set, wearing to the same bevel, and therefore always sharp. Price, \$6.50.

COLDWELL'S GOLF OR PUTTING-GREEN MOWER

The best Mower of its kind sold; comes in five sizes. Prices furnished on application.

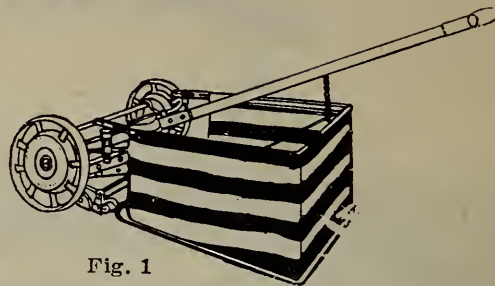


Fig. 1

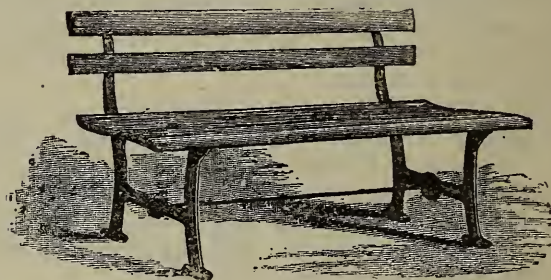
HAND LAWN MOWER GRASS CATCHER

(Fig. 1.) An up-to-date article; fastens on the handle bars; can be easily attached and adjusted. This Catcher should not be compared with cheap articles which are being offered. Best grade, \$1.50. Second grade, \$1.25.

HORSE MOWER GRASS CATCHER

Has to be made to order for different makes and sizes of machines. Prices, \$5.00 to \$5.50.

LAWN BENCHES OR SETTEES



Central Park Settee.

CENTRAL PARK SETTEE

Very strong and exceedingly comfortable. 4 ft., \$4.00. 5 ft., \$4.25.

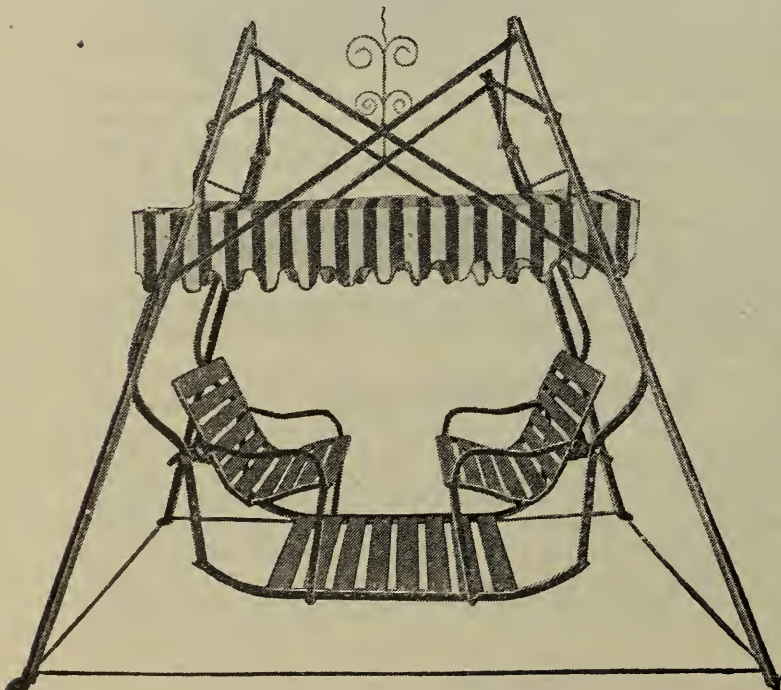
BENT WOOD RED SETTEE

A strong, light, very comfortable and very ornamental Settee. 4 ft., \$3.25. 5 ft., \$3.50.

LAWN SWING

EAGLE LAWN SWING

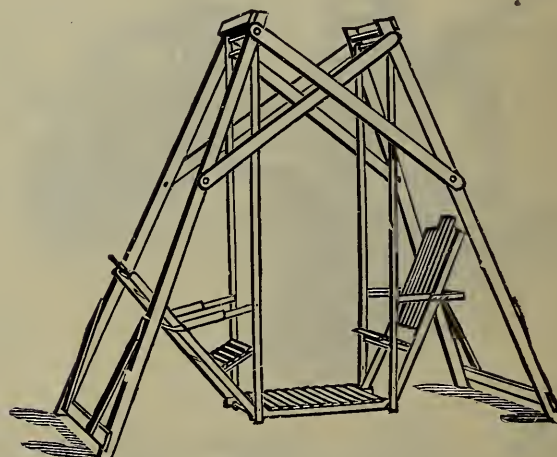
This is an all steel high Swing, very strong and at the same time very neat. It has two large roomy seats, and will hold four passengers very comfortably. No jagged corners, no tilting motion; awning over seats. The best steel Swing on the market. Price, \$15.00.



Eagle Lawn Swing

ASHLAND LOWDOWN ROLLER LAWN SWING

Flexible back; easy running; all hardwood. Just as comfortable as "Mother's Old Rocking Chair." Accommodates four passengers; has gliding motion, moving 44 inches horizontally. Can be used anywhere on lawn, porch, or in the house. Entire height is 48 in., width 36 in., length 7 ft. Price, \$8.00.



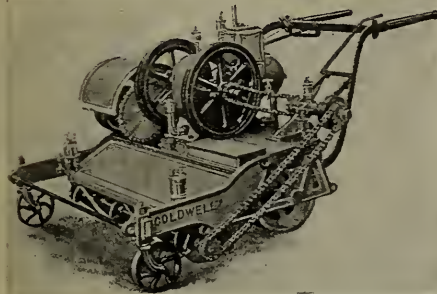
LAWN SWING.

Made for durability and wear. A far superior article to the ones bought in department stores. Price of 2-passenger Swing, \$5.00. 4-passenger, \$6.50.

All Prices Subject To Change Without Notice

COMPLETE LINE OF COLDWELL'S LAWN MOWERS

COLDWELL'S COMBINATION ROLLER AND MOTOR LAWN MOWER, STYLE F.



Is designed for use on small estates, tennis grounds, etc., not sufficiently large to warrant the purchase or use of one of the larger and heavier machines.

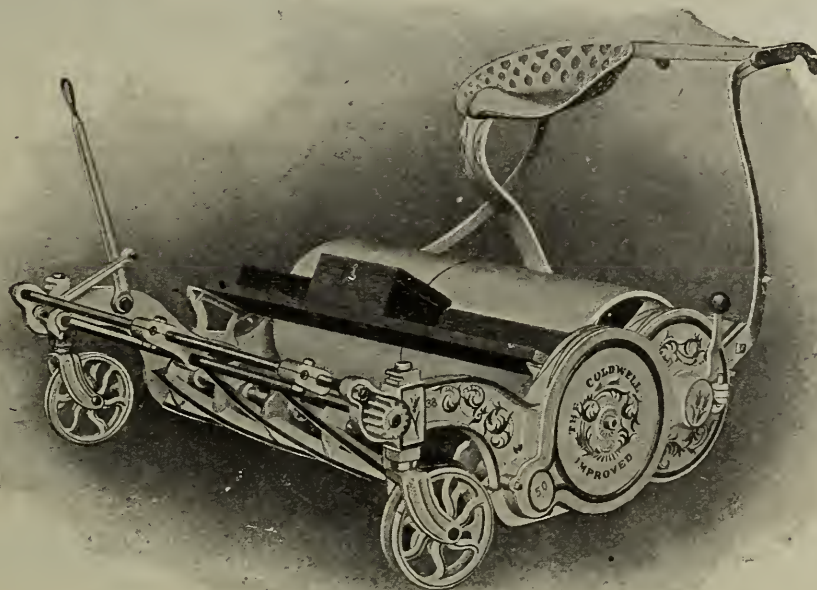
This machine cuts a swath 40 inches wide, is equipped with a 2-horsepower motor, capable of propelling the motor through almost any height of lawn grass and up grades as steep as twenty-five per cent. It is also equipped with Coldwell's patented demountable cutting unit. This device is an extra cutter part composed of the revolving and stationary knives and the necessary parts to carry them, which can be removed from the machine in a few moments and replaced by the other unit, which is shipped with this mower at no extra charge.

It is also equipped with a new patented device for raising the knives when crossing gravel walks, roads, etc., thus protecting them from injury. Clutches are provided to throw the traction rollers, as well as the revolving cutters in and out of gear. The workmanship and finish of this mower is guaranteed.

PRICES ON APPLICATION

COLDWELL'S IMPROVED HORSE LAWN MOWER

Coldwell's Improved Horse Lawn Mower is conceded to be superior to any other Mower on the market. This is the opinion of experts, both mechanics and men who have had long experience in caring for lawns. Some of its points of merit are: Light draft, large driving rollers, non-clogging castor wheels, can be thrown out of gear without driver leaving seat, both sides of machine can be adjusted at once; device for instantly raising all knives from the ground when passing over stones or other obstructions, or when drawing over a roadway; side-draft attachment to prevent horse from walking on grass before it is cut. Coldwell Mowers wear well. The material is the best. Coldwell Mowers were adopted several years ago by the Baltimore City Parks and have been used since then in preference to other makes. They are also used by the leading Country Clubs and on the principal lawns around Baltimore. Guaranteed to be the best.



25 in., without seat or shafts.....List Price, \$65.00
Retail Price.....50.00

30 in., complete with seat and shafts...List Price.....110.00

Retail Price\$85.00

35 in., complete with seat and shafts...List Price.....135.00

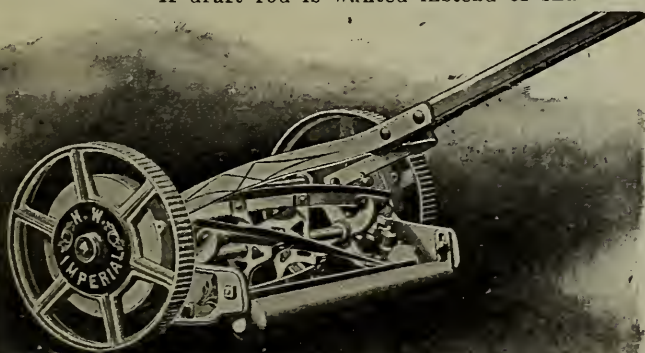
Retail Price100.00

If draft rod is wanted instead of shafts and seat, deduct \$5.00 from retail price.

COLDWELL'S RAJAH LAWN MOWER

Coldwell's Rajah is a strictly high-grade, ball bearing Lawn Mower. It is made of first-class material throughout and the workmanship and finish are unsurpassed. It has large driving wheels and fine cut gears, thus insuring ease and quietness of running. The large diameter revolving cutter, which is furnished with five blades, makes it an exceptionally high-class Lawn Mower and one that cuts fine and even. It is provided with sliding pawl ratchets in each wheel and the adjustment of the bearings and knives are the simplest ever made. The adjustment of the bearings is accomplished by means of one screw conveniently located at the end of the revolving cutter, by means of which all the looseness in the bearings can be taken up. A locking screw holds them securely in place.

This Mower is furnished with Coldwell's patent double-edge bottom knife, which is shaped like a piece of channel iron, with two upturned highly tempered edges. This makes it far stiffer than the old style flat knife and also permits a new cutting blade to be brought into use should one become injured or worn out.



COLDWELL IMPERIAL HIGH-WHEEL LAWN MOWER

This machine is, without doubt, the best non-ball-bearing Lawn Mower manufactured. 10-inch drive wheel, rigid of frame, steel blades, thorough in material and workmanship in every respect. Price, 14 in., \$10.50; 16 in., \$12.00; 18 in., \$13.00; 20 in., \$14.00.

"DIXIE"

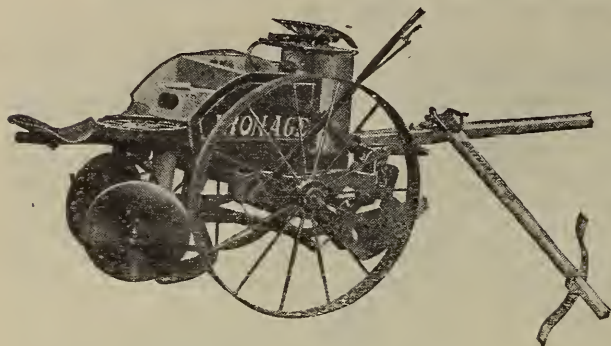
This is a good Mower at a medium price for all ordinary work. It is made on thoroughly practical lines and is so constructed that it cannot be easily disarranged. The Drive Wheels are nine inches in diameter, with the gears raised up from the ground, fully protected from the dirt and cut grass. The Revolving Cutter is 6 inches in diameter and has 4 crucible steel blades highly tempered and ground true their entire length. It is carried on our patented adjustable Ball Bearings.

HORSE AND HAND LAWN MOWERS SHARPENED AND REPAIRED IN A THOROUGH AND SATISFACTORY MANNER

GREAT SOUTHERN

This is an easy running Ball Bearing Mower of exceptional value for the money. Owing to the design it is light but strong and durable. The Revolving Cutter is six inches in diameter and has four hardened crucible Steel Blades, full size and weight, which are mounted on strong malleable flanges. The Balls and Cones are hot forged tool steel, ground true, highly polished and hardened by a new process of tempering. The adjustment of the Ball Bearings is simple and very easy, and is also positive and accurate. The Bottom Knife is a solid steel blade oil tempered and is adjusted to the revolving cutter in a simple but positive manner. The Ratchet has a flat steel sliding pawl working with the Revolving Cutter Gear, and is strong and reliable.

"IRON AGE" (IMPROVED ROBBINS) POTATO PLANTER



A light weight, light draft, strong, compact Potato Planter, with a record of many years' perfect planting such as none other can point to. In localities where they are used at all, they are used almost exclusively. As soon as a grower learns what the "Iron Age" has done for his neighbor he wants one and gets it, if he speaks in time. Its perfect work is marked by four things especially—while it handles all the seed automatically from hopper to seed spout, it does not injure a single piece—although a boy is necessary to make corrections, the net profit to you is far greater than if you planted with any other machine—no matter what distance apart you want to put the seed, you can do it and be sure there is a piece in every space and one only—although you sow fertilizer at the same time, none of it touches the seed.

Order Fig. 265, Double Spreader. Puts quick acting fertilizers, such as nitrate of soda, where they will do the most good—on each side of the growing crop. This forces the crop to early maturity, and you can get to market when prices are high. This has become a common practice with market gardeners. The crop is more tender and has a readier sale. Our fertilizer distributor handles nitrate of soda in good shape. The holes at top of spreader will adjust it so that fertilizer will fall in the center and be divided evenly, no matter how much you sow. For machines built previous to 1910, order Fig. 265S. Spout with spreader for which you pay, price, (complete), \$2.25.

Fig. 266—You can ridge your potatoes at the same time you are side-dressing the plants. Many growers in Maine and elsewhere find this necessary. The attachment can be furnished for any "Iron Age" Planter. Potato tube and boot are removed when using the ridger.

About an hour and a half per acre is all that is necessary to side-dress and ridge.

We will be glad to furnish copy of an interesting article on this ridging system, written by a grower who has used it many years with unvarying success. Your conditions may not demand it, but if they do this article will be valuable. Every progressive grower aims to better his productions with as little work as possible, and he does not hesitate to change his method where there is reasonable change of improvement.

There is considerable point in this man's application of fertilizers so that there will be no loss in taking up the nitrogen

Price, complete, with fertilizer attachment.....\$90.00

Corn, bean and pea attachment, extra..... 6.00

ACME MOWER

The first impression obtained when inspecting the Acme Mower is its sturdy appearance. This commendable feature is the result of a carefully thought out design. The same care in the manufacturing and in the selection of dependable materials is used in building Acme Mowers as in other machines of higher value.

Acme Mowers are famous for their lightness of draft, ease of operation and enduring qualities. They are so evenly balanced that when the driver is in the seat there is absolutely no neck weight.

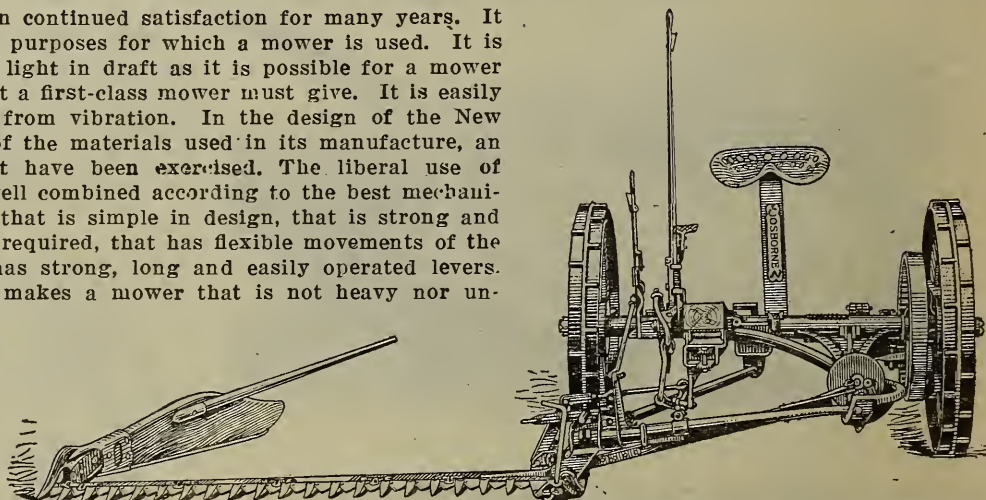
NEW OSBORNE MOWER

The New Osborne mower has given continued satisfaction for many years. It is a machine that is well suited to all purposes for which a mower is used. It is an extremely durable machine and as light in draft as it is possible for a mower to be and gives the kind of service that a first-class mower must give. It is easily handled, neat, runs silently and free from vibration. In the design of the New Osborne mower and in the selection of the materials used in its manufacture, an unusual amount of care and thought have been exercised. The liberal use of malleable iron and high grade steel, well combined according to the best mechanical principles, has produced a mower that is simple in design, that is strong and rigid where strength and rigidity are required, that has flexible movements of the parts requiring flexibility, and that has strong, long and easily operated levers. The use of such high-grade material makes a mower that is not heavy nor unwieldy. The flexibility of cutter bar movement makes it possible to use the New Osborne mower in many places which ordinarily would be very difficult to cut.

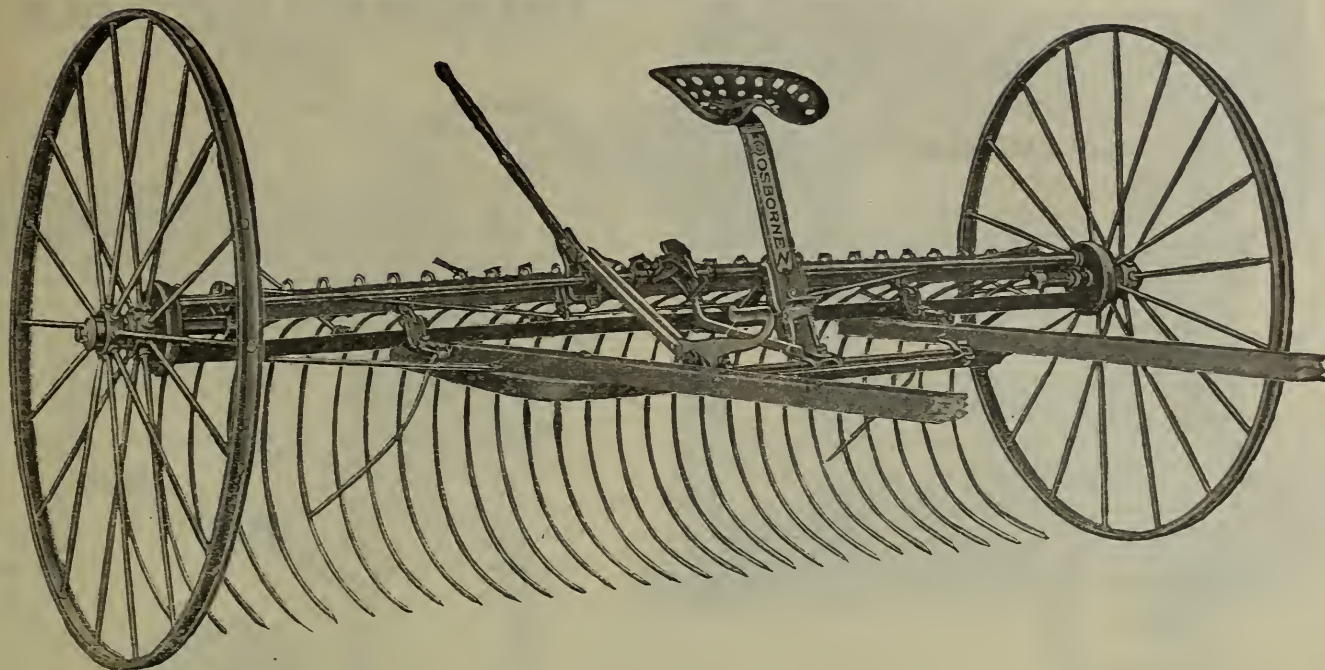
The cutter bar is the part of the mower that has all of the hard work to do because it has to run through such obstructions as ant hills, stones, stumps and the like, which may be hidden in the fields where the driver cannot see them. This is unavoidable and will eventually result in a sagging cutter bar. It is a bad thing for a mower to have the cutter bar out of line because it causes heavy draft, excessive wear on the knife plates, the guard plates, the knife head, the pitman and the crank pin. This wears the mower out quickly and makes hard work for the team. A sagging cutter bar is frequently the cause of broken knife heads. On the New Osborne Mower it is never necessary to work with a sagging cutter bar. Consequently the driver can be free from such annoyances as are caused by the cutter bar getting out of line. With the New Osborne mower the cutter bar can always be kept in perfect alignment with the knife head and the crank pin as long as the mower is in service.

Realigning the New Osborne cutter bar is simplicity itself. All that is necessary is to apply a wrench to the eccentric bushing. Giving this bushing a slight turn with the wrench swings the outer end of the cutter bar around, about the knife head as the center, realigning the bar at the very place where it gets out of alignment. This is the only correct way to realign a cutter bar. It brings the cutter bar, knife head and crank pin in a straight line, which is their proper relative positions.

Write for Circular Describing the New Patent Lawn Razor

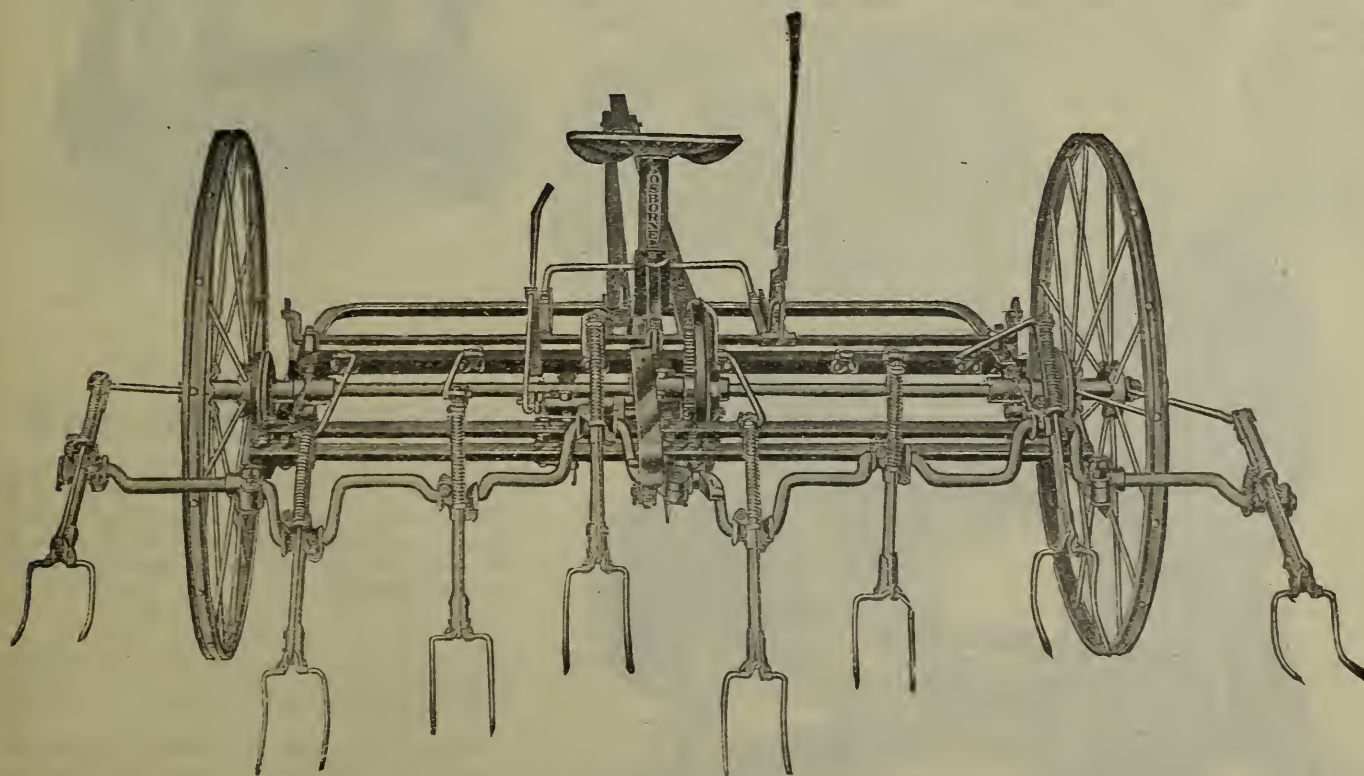


THE OSBORNE HAY RAKE



A hay rake is naturally long and unwieldy to handle. For this reason it is necessary to have exceptionally strong wheels and a rake head and axle that are absolutely sagproof. The Osborne Hay Rake has unquestionably the strongest wheels of any hay rake made, and the rake head and axle never sag, no matter how long the rake may have been in use. The reason for the exceptional strength of the wheels is in the large, round staggered spokes and the channel rim, which make it impossible for wear to loosen the spokes in the rim. The hubs are wide, giving an exceptionally wide stagger to the spokes. The wheels are interchangeable, giving the advantage of two wearing surfaces in one wheel. The channel rim, in addition to affording a protection to the rivet heads of the spokes, prevents the rims from picking up dirt and dropping it down on the axle. Self-dump, 8 ft., \$22.50. 9 ft., \$25.00.

OSBORNE HAY TEDDER

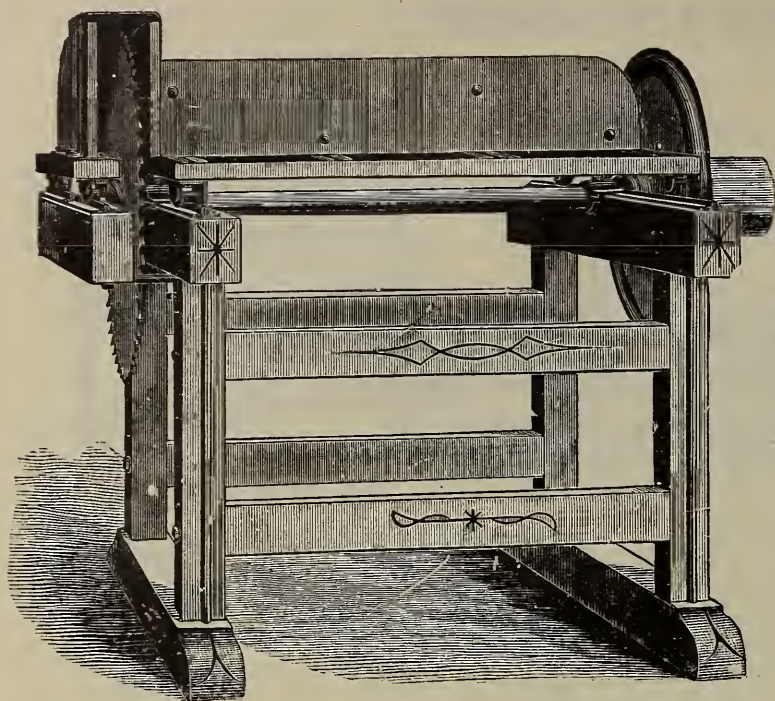


There is no haying machine a farmer can have that will return him as much profit if judiciously used as the Hay Tedder. This is particularly true in heavy hay crops and when the hay is cut early. There isn't any question but that hay, to be cured properly, must have light and air circulate through it. The leaves and blossoms cure much more quickly than the stems, and the hay that is on top cures quicker than that underneath. If the hay is left to dry in the swath the surface cures quicker. It has long been an established fact that hay curing on a cloudy day, with little dampness in the atmosphere, is of a much better quality than that cured when the sun is shining hot. The reason for this is that on a cloudy day the heat of the sun is eliminated to a large extent, thus giving the hay a chance to cure more evenly. The Hay Tedder takes the place of the cloudy day.

6-fork, \$42.50.

8-fork, \$47.50.

All Prices Subject To Change Without Notice



AMERICAN SLIDE TABLE SAW

A splendid machine. The frame is constructed of 4-inch hardwood, mortised and bolted. The arbor is 1½-inch cold rolled steel. The distance from fly wheel to saw is 3 feet 1½ inches. The table operates on rollers, which run on a grooved and smooth track, and a cast guide keeps it in position. An iron counter-balance, not shown in illustration, is furnished. This is attached by a rope to the table, and brings it back to position when the cut is made. The machine is furnished with a guard, as shown in illustration. The saw blade is the very best obtainable, and will be replaced free if found defective. Left-handed machines, as shown in illustration, furnished, unless otherwise ordered.

Weight, 400 lbs. Speed, 1000 revolutions per minute, when a 24-in. saw is used.

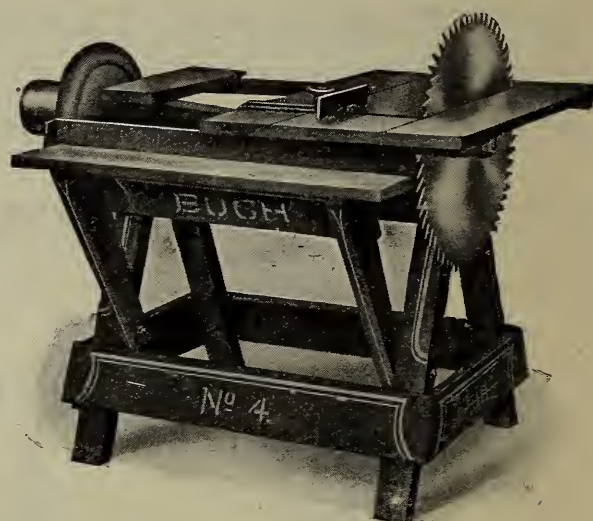
PRICES:

With 26-in. Saw.....	\$32.50
With 28-in. Saw.....	34.50
With 30-in. Saw.....	38.50

BUCH'S CROSS-CUT SAW-No. 4

WITH RIPPING TABLE ATTACHED

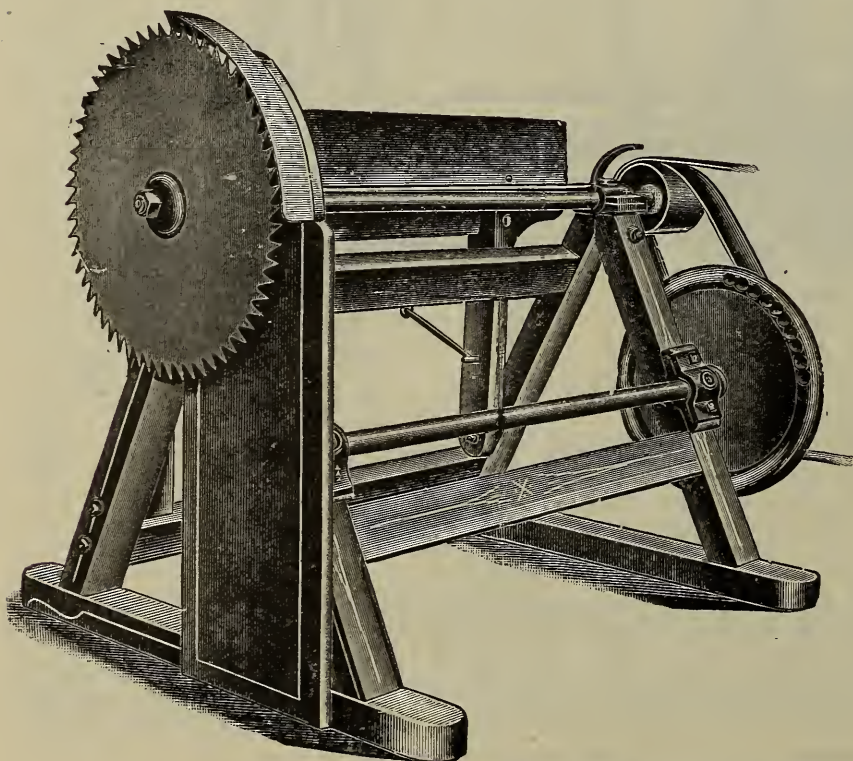
Small Cross-Cut, Rip and Swing Table Saw, 18 in. blade.....	\$19.00
With Rip Saw Table.....	22.00



EXTENSION TABLE POLE SAWS

As cut shows, the feed table of this frame is a little longer than regular, and is arranged so that long sticks can be handled on it. Pulley 6x6 inches. Speed, 1000 to 1500 R. P. M. Weight, 354 pounds.

Without Saw	\$25.50
With 24-inch Saw.....	33.00
With 26-inch Saw.....	34.50
With 28-inch Saw.....	36.00
With 30-inch Saw.....	37.50



SWING TABLE SAW

This Saw is constructed so it can be used for sawing long timber. As you will notice in the accompanying illustration, the balance wheel is low down. This machine is made of the very best material, in a thorough, workmanship manner.

PRICES:

With 26-in. Saw.....	\$32.50
With 28-in. Saw.....	34.50
With 30-in. Saw.....	37.00

Swing Table Saw with balance wheel on mandrel, \$3.00 less.

SAW MANDRELS

52 inches long, complete with large bab-bitted boxes, flywheel and pulley. Price, \$14.00.

All Prices Subject To Change Without Notice

OHIO AND HOCKING VALLEY Blower Feed and Ensilage Cutters

BALTIMORE PONY CUTTER



Adapted to cutting hay, straw and corn fodder, and is suitable for persons keeping from 1 to 4 or 5 animals.

Weight, K. D., packed for shipment, 160 lbs. \$15.00.

"OHIO" HAND FEED CUTTER



No.	Length of Knives, Inches	Number of Knives	Length of Cut, Inches	Prices On Application
8½	8½	2	¼, ¾, ¾	}
10½	10½	2	¼, ¾, ¾	

"OHIO" STANDARD FEED AND ENSILAGE CUTTER

No. 9—With safety fly wheel and pulley, 2 knives

No. 9—With safety fly wheel and pulley, 4 knives

When furnished with extended knife shaft to place fly wheel or pulley on either side, extra.....

No. 11—With 2 knives, 11 inches long, cuts ½, 1, 1½ and 2 inches.....

No. 11—With 4 knives, 11 inches long, cuts ¼, ½, ¾ and 1 inch.....

No. 11—With 2 shredder blades, no knives..

No. 11—With 4 shredder blades, no knives..

Reversible carrier, angle or straight delivery, 12 feet long or less.....

Straight-delivery carrier, without reversible attachments

Additional length over 12 feet, extra per foot

Extra gears to cut 4 inches long with 2 knives No. 11 only.....

Cutting knives, each.....

Shredder blades, interchangeable with knives, each

No. 13—With 2 knives, 13 inches long, cuts ½, 1, 1½ and 2 inches.....

No. 13—With 4 knives, 13 inches long, cuts ¼, ½, ¾ and 1 inch, weight, 560 lbs.

No. 13—With 2 shredder blades, no knives.....

No. 13—With 4 shredder blades, no knives.....

No. 16—With 4 knives, 16 inches long, cuts ¼, ½, ¾ and 1 inch, weight, 620 lbs.....

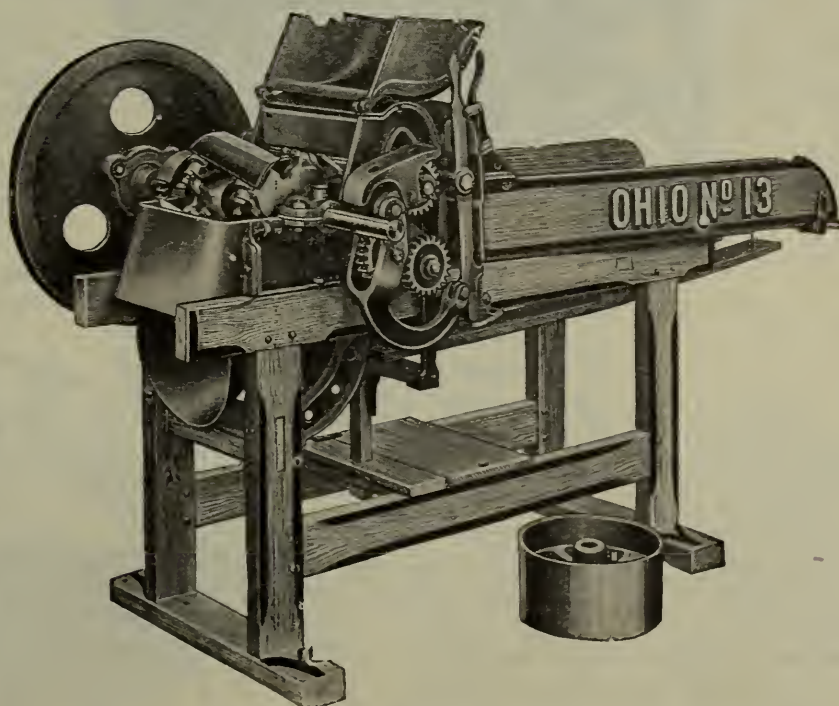
No. 16—With 4 shredder blades, no knives.....

No. 18—With 4 knives, 18 inches long, cuts ¼, ½, ¾ and 1 inch, weight, 700 lbs.....

No. 18—With 4 shredder blades, no knives.....

Straight-delivery carrier, 12 feet long or under, for Nos. 13, 16 or 18.....

Prices On Application.



Length of Knives is Indicated by Number of Machine

Swivel carrier, 12 feet long or under, for Nos. 13, 16 or 18

Carrier, extra, over 12 feet long, per foot.....

Wood cover, with hooks and eyes to fasten, per ft.....

Extra gears to cut 4 inches long, with 2 knives, Nos. 13, 16 and 18.....

Cutting Knives. Each.....

Shredder Blades. Each.....

Prices On Application

Prices On Application

Write for Special Catalogue on Prices.

OHIO AND HOCKING VALLEY Blower Feed and Ensilage Cutters

"OHIO" SELF-FEED ENSILAGE CUTTER

With Direct Blast Blower Elevator

As compared with the "Ohio" Standard machines, there is more weight and capacity all through. The frame is heavier and well braced. The knife shaft is steel, 1 7/8 inches in diameter. The knife heads are very much heavier, the cylinder larger in diameter, and there are four strong bolts in each knife in addition to the adjusting set screws at the back. The raise of the feed rolls is greater, thus giving more throat capacity and better feeding qualities. The conveyor beneath the knives carries the cut silage into the fan case. A wire screen covers the outer end of the conveyor case.

The traveling feed table is full width of the machine and 8 feet long, taking a bundle of corn readily.

The new patent-applied-for shredder blade should be run at 600 to 700 revolutions per minute while shredding, and is a notable advance in construction, enabling the operator to shred dry fodder or cornstalks with the blower. There is a great saving in power also as compared with the tooth or saw blade type of shredder, besides saving the leaves in much better condition. No. 12, capacity 8 to 10 tons per hour, 6 to 8-horse steam power. No. 14, capacity 12 to 15 tons per hour, 10-horse steam power. No. 17, capacity 15 to 20 tons per hour, 10 to 12 horse steam power. No. 19, capacity 20 to 25 tons per hour, 12 to 14-horse steam power. Speed, 650 to 700 revolutions per minute. Pulley, 12x8 inches, leather covered.

Sizes and Prices	
No. 12, with four 12-inch knives, cuts 1/4, 1/2 and 1 inch, and Blower complete with new distributor for top of pipe	Prices On Application.
No. 14, "Monarch" Cutter, four 14-inch knives, cuts 1/2, 3/4 and 1 inch, and Blower complete with new distributor for top of pipe.....	
No. 17, "Monarch" Cutter, four 17-inch knives, cuts 1/2, 3/4 and 1 inch, and Blower complete with new distributor for top of pipe.....	
No. 19, "Monarch" Cutter, four 19-inch knives, cuts 1/2, 3/4 and 1 inch, and Blower complete with new distributor for top of pipe.....	
10-inch galvanized pipe in 4, 6, 8 and 10 foot lengths for No. 14, No. 17 or No. 19 Cutter, per foot.....	

NEW SILO TUBE

To distribute ensilage inside silo; made in 3-foot sections, hung together by hook and links; flexible, easily taken apart. Top section 3 feet long, with flaring top. List, \$3.00. Other sections, 3 feet long, complete each. List, \$3.00.

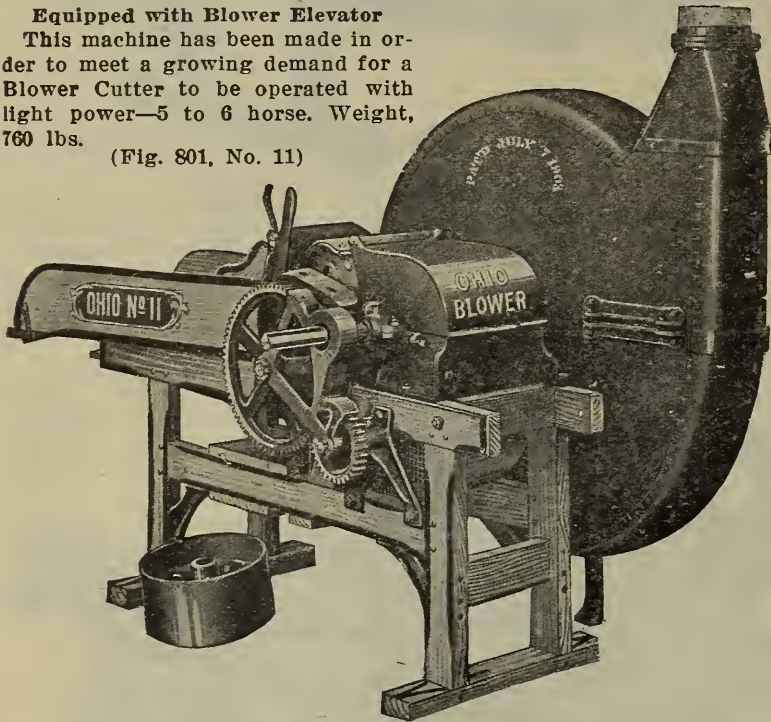
Extra gears to cut 4 inches long with two knives, Nos. 14, 17, 19, \$5.50. Shredder blades for No. 14, \$3.00; No. 17, \$3.75; No. 19, \$4.15 each.

"OHIO" STANDARD FEED AND ENSILAGE CUTTER, No. 11

Equipped with Blower Elevator

This machine has been made in order to meet a growing demand for a Blower Cutter to be operated with light power—5 to 6 horse. Weight, 760 lbs.

(Fig. 801, No. 11)



The No. 11 Cutter has long been our most popular size for light farm use. It is adapted to cutting all kinds of dry feed as well as ensilage. It is strongly and durably built, has large capacity and requires but slight power to run. The pipe is 7 inches in diameter and is made of galvanized steel with standing seam on the outside, running lengthwise, being very rigid. It is made in 4, 6 and 10 foot lengths, with 7-inch slip joints and a clamping band at each joint. The pipe connection at the fan case is a swivel joint, which gives the pipe the proper angle for convenience and best results, and allows it to turn in any direction. Included with each machine is a hood or elbow, which is to connect to upper end of pipe and convey the cut ensilage into the silo.

Set Pipe Nearly Perpendicular for Ensilage. Dry Feed Can Be Blown in Any Direction.

No. 11—With two 11-inch knives, cuts 1/2, 1 and 2 inches	Prices On Application
No. 11—With two shredder blades, no knives.....	
Above prices are for machines complete with Blower and Hood, but no pipe.	
7-inch galvanized pipe in 4, 6 and 10 ft. lengths per ft.....	
Extra gears to cut 4 inches long, with two knives. Cutting knives, each.....	
Shredder blades, interchangeable with knives, each	

Note—No. 11 Blower made only with two knives.

NEW STEEL TRUCK

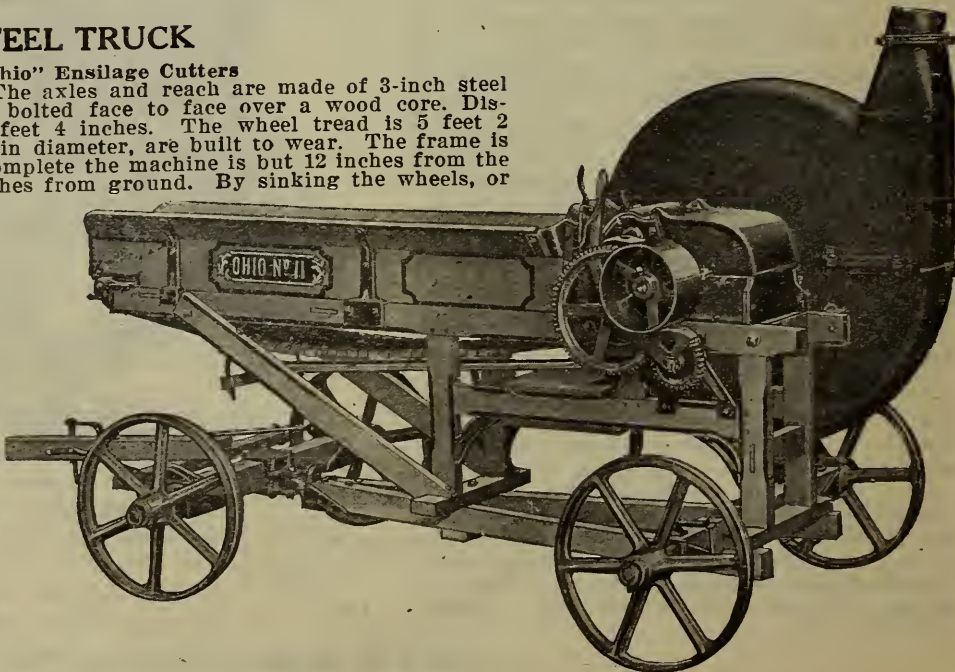
For Mounting "Ohio" Ensilage Cutters

The frame is of steel throughout. The axles and reach are made of 3-inch steel channels, the axle channels being firmly bolted face to face over a wood core. Distance between front and rear axles is 8 feet 4 inches. The wheel tread is 5 feet 2 inches. The cast iron wheels, 24 inches in diameter, are built to wear. The frame is securely put together. When mounted complete the machine is but 12 inches from the ground and the top of feed table 45 inches from ground. By sinking the wheels, or removing them, the axles may be let down on to the ground, in which case the machine would be but 3 inches from ground, the thickness of the steel reach. The highest point of feed table would then be only 36 inches from ground, thus no staging or platform would be required to get corn in the machine.

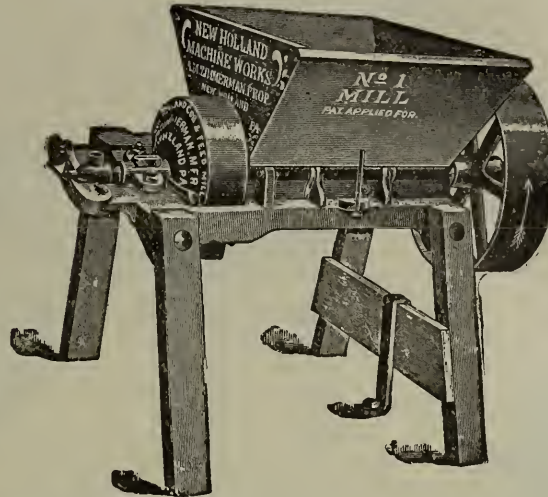
This outfit is suitable for all sizes of "Ohio" Silage Cutters with traveling feed tables, both blower and carrier styles, and is recommended as a thoroughly practical, economical and satisfactory mounting for all parties who wish to move their machines frequently or regularly. All parts are interchangeable, and in case of accident may be readily replaced. Price of Truck, without neck yoke of double trees, weight 800 lbs., \$50.00.

Subject to a liberal discount.

All Prices Subject To Change Without Notice



NEW HOLLAND GRINDING MILLS FOR EAR CORN OR SHELLED GRAIN



These very popular and excellent working Mills have a decided point in their favor, and that is that while doing excellent and fast work, they are slow-speed machines, a factor for reducing friction, and operate with less power than any other Mill we know of. By a peculiar construction, the ears are not crushed by main force as in other Mills. The lugs of the cob grinders are placed spirally on the shaft, so that not more than 1 or 2 will catch the ears of corn at one time, and, being short, they pierce and break out pieces of the ear and thus gradually reduce it. Having large pulleys and no extra shafts, belts, chain or cog gearing, the draft is made the lightest possible. Simplicity and durability are the keynotes in the construction of these Mills. The frame is in one casting and there is only one shaft; the cob grinders and grinding plates are all on this shaft. The material is of extra quality, and there are a number of little features about the Mill which all go toward making it very durable and long-lived. The grinding plates are made of the hardest suitable metal.

No. 6½ NEW HOLLAND MILL

This Mill may be operated with any light power, from 2 to 6 horse power. The speed should be from 200 to 600 revolutions per minute, according to power. Light powers require lower speeds. Capacity, 6 to 30 bushels per hour. Price, complete, \$25.00.

No. 10 NEW HOLLAND MILL

Similar to the No. 6½, but is heavier, larger and has much greater capacity. It is suitable for any power, from 6 to 12 horse, and will grind from 20 to 60 bushels per hour. Speed required, 200 to 600 revolutions per minute. Price, complete, \$32.50.

ADVANTAGES IN CORN AND COB MEAL

The man with a good grinder has another decided advantage besides that of being able to feed ground grain instead of whole grain. He can increase the bulk of the corn he feeds from one-fifth to one-fourth by grinding cobs and corn together, making corn and cob meal.

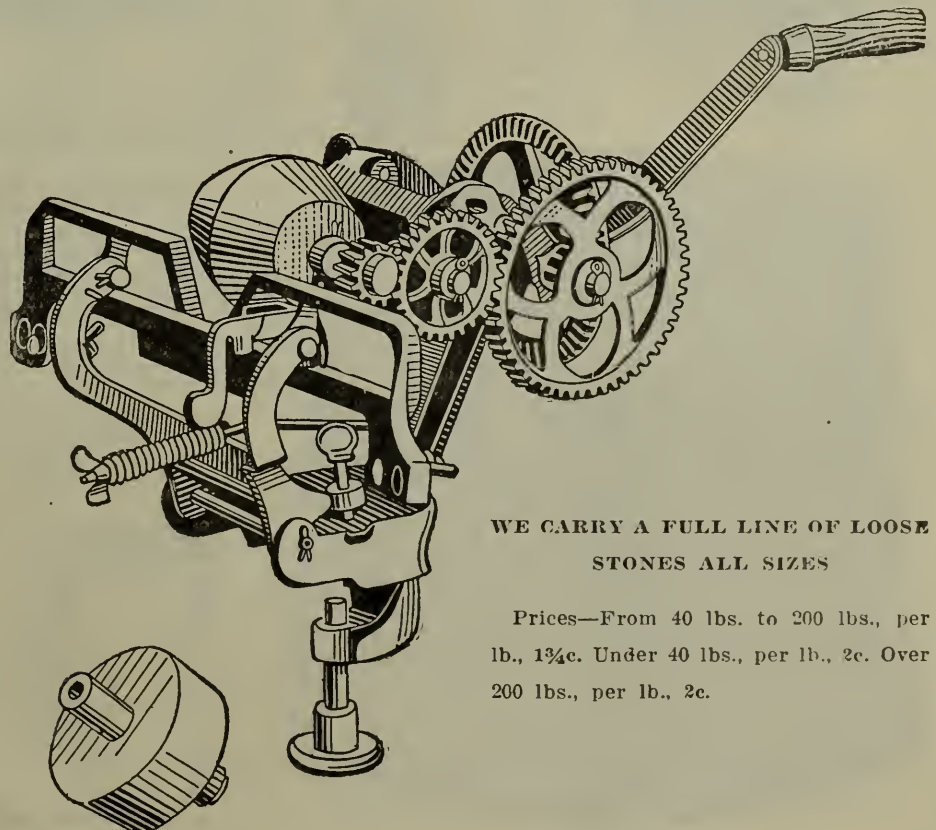
Hence he has more feed per acre of corn, and a feed upon which the stock will thrive better than on corn meal alone. Practical experiences of feeders all over the country and tests at Experiment Stations prove that better gains are made and less digestive troubles experienced when animals get corn and cob meal than when they get the corn meal only.

Corn meal is so heavy and condensed that when fed alone it lies in the digestive tract in too solid a mass for the digestive juices to thoroughly permeate it. Grinding the cob with the corn lightens the meal, makes it porous, prevents compaction in the stomach and alimentary canal and allows the digestive juices to go freely through the entire quantity.

Not only does the cob meal when ground and fed with the corn meal give valuable assistance to the process of digestion but it contributes largely to the nutritive value of the feed as shown by analyses made at various State Experiment Colleges. General testimony seems to show that a pound of corn and cob meal has the same feeding value as a pound of pure corn meal.

OSBORNE KNIFE GRINDER

There is nothing harder on the mower or on the team than dull knives. The Osborne knife grinder can be clamped to the rim of the wheel, where it is easy to use. The knife sections can all be ground with a perfectly clean beveled edge, all of them exactly alike. This grinder is equipped with a fine tempered steel regulator, which adjusts the pressure so that all of the sections can be ground evenly and regularly. The handle runs parallel to the knife, which is always in plain sight while being ground. Thus there is no danger of cutting the operator's hands. This grinder can also be fastened to a bench. A special stone for grinding tools or gumming saws will be furnished on special order.



WE CARRY A FULL LINE OF LOOSE
STONES ALL SIZES

Prices—From 40 lbs. to 200 lbs., per
lb., 1¼c. Under 40 lbs., per lb., 2c. Over
200 lbs., per lb., 2c.

All Prices Subject To
Change Without Notice

KANAWHA WOOD PUMPS

Be Sure and see the Red Jacket and genuine Cucumber Pumps before buying

When there is question of selecting a pump no one should decide in favor of a low price, unreliable pump. Buy a good pump always. The difference in cost is very slight, and the satisfaction given by a good pump, to say nothing of the longer wear, will make it by far the cheaper in the end. Kanawha Pumps have for many years been regarded as the best wood pumps ever offered. The prices given are for pumps fitted, ready to set in well.

LIST PRICES OF PUMPS—Completely Fitted with Pipe, Etc.
Ready to Set in Well

Depth of Well from Platform to the Bottom	Porcelain Lined Pump No. 2, 6x6	Depth of Well from Platform to the Bottom	Porcelain Lined Pump No. 2, 6x6
8 feet.....	\$ 8.40	17 feet.....	\$10.52
9 feet.....	8.60	18 feet.....	11.05
10 feet.....	8.80	19 feet.....	11.25
11 feet.....	9.00	20 feet.....	11.45
12 feet.....	9.20	21 feet.....	11.65
13 feet.....	9.40	22 feet.....	11.85
14 feet.....	9.86	23 feet.....	12.45
15 feet.....	10.08	24 feet.....	12.65
16 feet.....	10.30	25 feet.....	13.25
		26 feet.....	13.45

For Deeper Wells, see Extension Pumps

If Kanawha Pumps are wanted with Closed Bracket Handles, add \$2.50 to prices.

RED JACKET "EASY-TO-FIX" IRON PUMPS

PRICES GIVEN ARE FOR PUMPS FITTED COMPLETE

Depth of Well from Platform to the Bottom	Fig. 20 No. 1	Fig. 72 No. 1½	Fig. 102	Fig. 116
10 feet.....	\$19.50	\$26.00	\$54.00	\$24.40
12 feet.....	20.00	26.75	54.80	25.00
14 feet.....	20.60	27.50	55.75	25.60
16 feet.....	21.25	28.25	56.60	26.25
18 feet.....	21.75	29.00	57.50	26.90
20 feet.....	22.35	29.50	58.40	27.55
22 feet.....	22.90	30.25	59.30	28.20
24 feet.....	23.50	31.00	59.15	28.85
26 feet.....	24.10	31.75	61.00	29.50

Depth of Well from Platform to the Bottom	Fig. 51 8½ or 59-202 Pump with 2½-in. Pipe	Fig. 51 10½ or 59-203 Pump with 3-in. Pipe	Fig. 116
28 feet.....	\$38.30	\$41.80	\$34.70
30 feet.....	39.60	43.30	36.00
32 feet.....	40.90	44.80	37.30
34 feet.....	42.20	46.30	38.60
36 feet.....	43.50	47.80	39.90
38 feet.....	44.80	49.35	41.20
40 feet.....	46.10	50.85	42.50
42 feet.....	47.40	52.40	43.80
44 feet.....	48.70	53.85	45.10
46 feet.....	50.10	55.40	46.40
48 feet.....	51.30	56.90	47.50
50 feet.....	52.60	58.45	49.00
Extra feet .....	.65	.76	.65

THREE-WAY EXTRA, ADD TO LIST \$4.00.

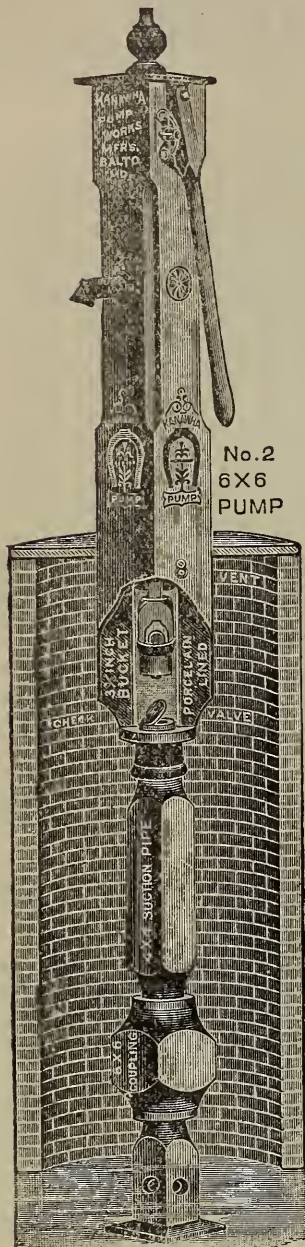
CYPRESS TANKS

These storage tanks are made of carefully selected red gulf cypress. We avoid the use of upland or cheaper grade of cypress, and in getting tanks from us you can rely upon high-grade material and workmanship. Tanks are made with round hoops and draw lugs, which give more strength and which do not rust like flat hoops

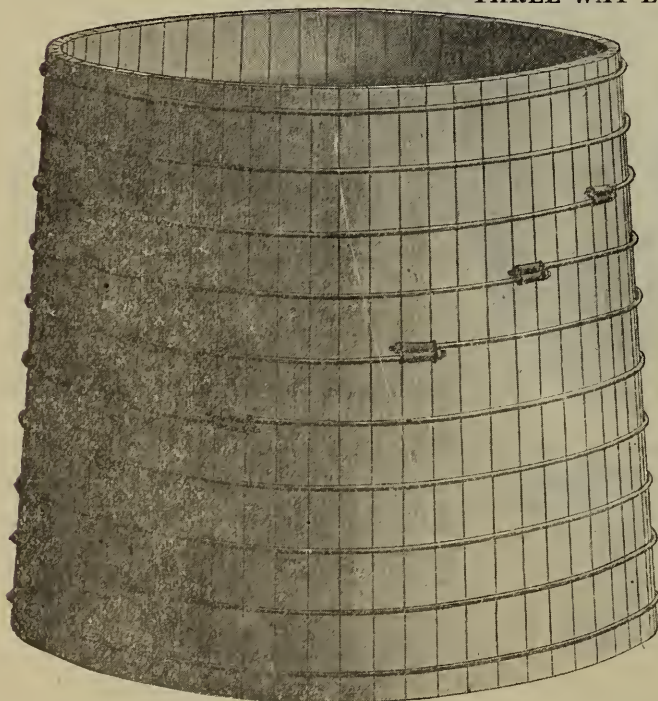
Diameter	Stave	Capacity	1½-in. cypress		2-in. cypress	
			List	Retail	List	Retail
3	3	110	.....	\$11.25	.....	.....
4	4	315	.....	19.80	.....	.....
5	2½	272	.....	19.50	.....	.....
5	4	467	.....	27.50	.....	\$35.00
5	5	597	.....	31.00	.....	39.00
6	4	688	.....	32.75	.....	41.50
6	6	1072	.....	44.00	.....	55.25
7	7	1738	.....	62.75	.....	78.50
8	6	1940	.....	68.75	.....	85.50
8	8	2639	.....	80.00	.....	98.00
10	10	5300	.....	.....	.....	155.75

Prices on other sizes quoted on application

All Prices Subject To Change Without Notice



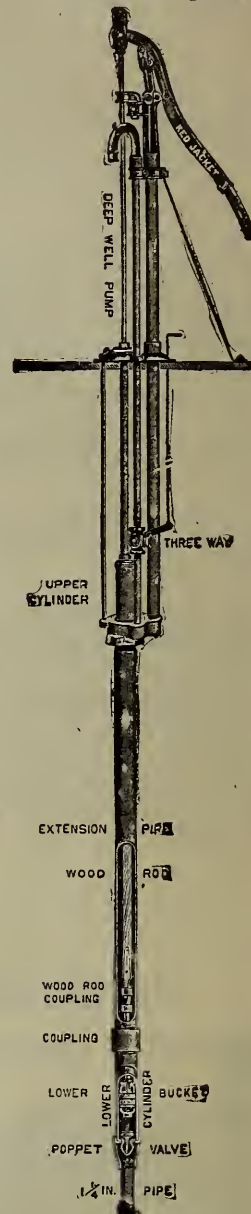
Kanawha Pump



KANAWHA PORCELAIN LINED EXTENSION PUMP

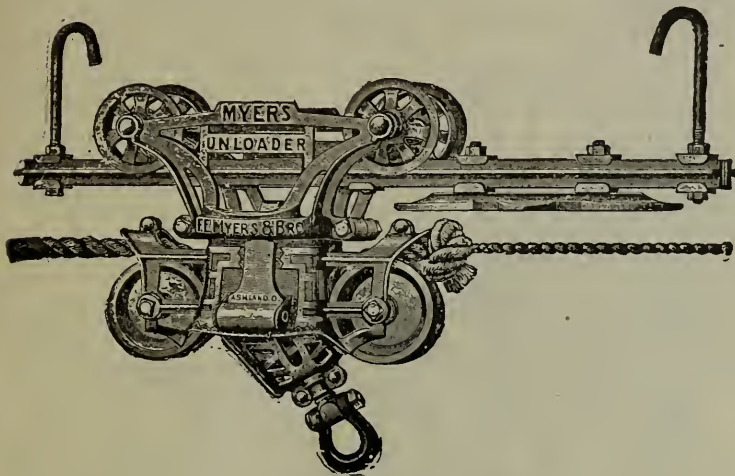
Depth of Well from platform to bottom	With 7x7 Pump head
31 feet.....	\$16.80
32 feet.....	17.40
33 feet.....	18.00
34 feet.....	18.60
35 feet.....	19.20
36 feet.....	19.80
37 feet.....	20.40
38 feet.....	21.00
39 feet.....	21.60
40 feet.....	22.20

If over 40 ft. Add 78c per ft. to the above prices.



Red Jacket Pump

THE MYERS HAY UNLOADER, TRACK, FORKS AND FIXTURES



Bottom View



Fig. 3



Fig. 2



Fig. 1



Fig. 4

We give the above view of Myers Hay Unloader to be used on Myers double angle steel track. This is the latest and best hay carrier, and it embodies all the features of the Straight Reversible and Swivel Reversible Carrier, and has many advantages over any other machine on the market. It is fitted with the Myers reliable double lock, which engages the fork pulley on each side, thus insuring a perfect locking device. One of the most important features of this carrier is the wide open mouth, which permits the fork pulley to enter when swinging at any angle. This feature can be readily understood by referring to the illustrations above, and noting the shape of fork pulley (Fig. 1). This construction insures a satisfactory working carrier under all conditions.

The Track Wheels (Fig. 2) have turned steel axles, and weight is carried in center of wheel; the rope sheaves are fitted with wide hub and have longer bearings than any other make of carrier. For strength, simplicity, neatness of design and up-to-date features it is without a peer. We also offer the Myers Unloader for Wood Track. The wood Track Unloader possesses all the good features of the Steel Track Unloader. Price, \$5.50.

MYERS PATENT STEEL TRACK



The style of this Track is here illustrated. It is made of two T carbon rails, very hard and stiff. Note the manner of clamping it together so that the two joints do not come opposite each other. A wrench only is needed to put this Track together. Price, per ft., 16c.



Fig. 5

REGULAR DOUBLE HARPOON FORK

(Fig. 5.)

The best known Fork. Price, \$1.50.

GENUINE NELLIS SINGLE HARPOON FORK

Price, \$3.00.



Fig. 6

MYERS LOCK LEVER FORK

(Fig. 6)

Has 50 per cent. more capacity than the regular Double Harpoon Fork on account of the crossbar being nearer the top. Operated with one lever. Price, \$2.65.

PULLEYS, HOOKS, ETC. PRICES



Fig. 8



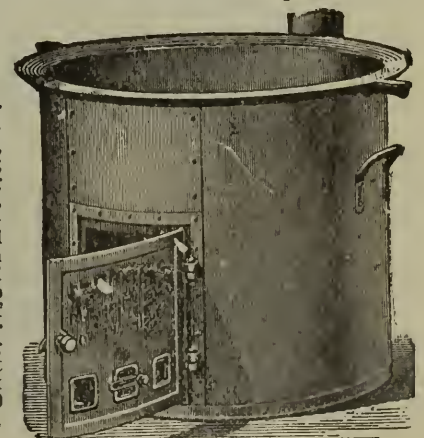
Fig. 7

Malleable Rafter Bracket (Fig. 3).....Each, 9c
Hanging Hooks (Fig. 4).....Each, 12c
Floor Hook, 3-4 in.....Each, 12c
Plain Maple Sheave Pulleys (Fig. 8).....Each, 30c
Knot-Passing Maple Sheave Pulley (Fig. 7).....Each, 45c
Rafter Nails, per pound.....Each, 9c

Manila Rope, either $\frac{3}{4}$ or $\frac{5}{8}$ in. diameter, at market prices; usually about 16c per lb.; about 6 feet to the pound.

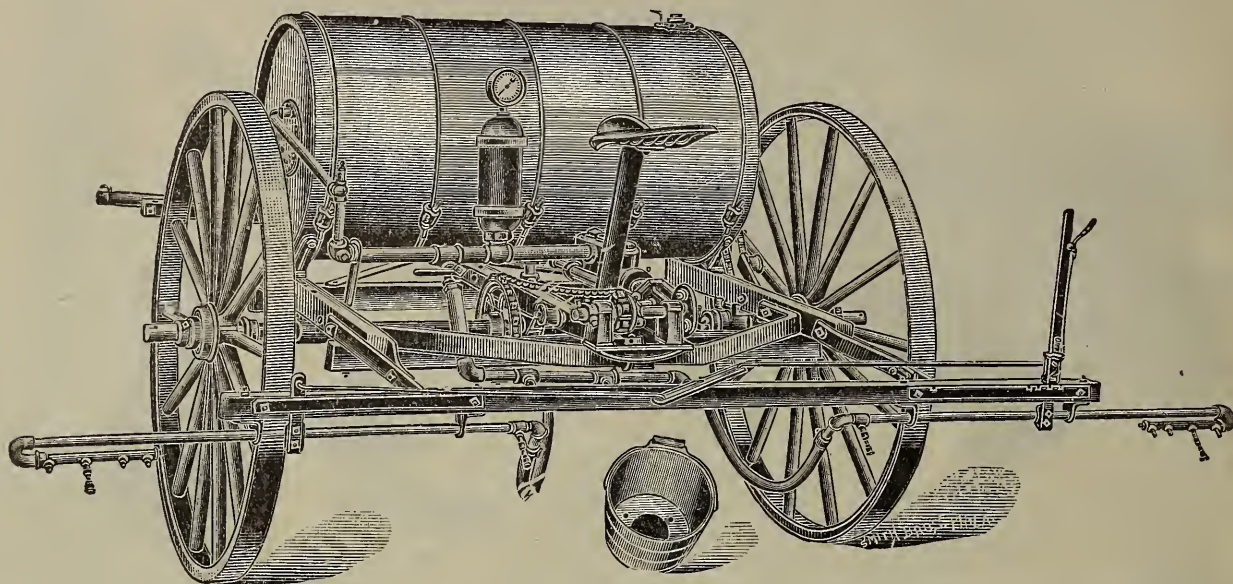
FOOD COOKER AND BOILER

These are used for cooking food, rendering lard, scalding hogs, poultry, making soap; very useful for boiling spray mixtures. Heavy, cold-rolled steel furnace, extra large feed door, wrought iron handles, firmly riveted on furnace; kettles are smooth and made of heavy cast iron, never buckling or warping from heat. Made to set on ground or brick foundation. Prices: 30 gal., \$13.00. 40 gal., \$17.00. 53 gal., \$19.50.



Special Estimates on Complete Outfits Cheerfully Furnished.

"IRON AGE" HORSE POWER FOUR AND SIX ROW SPRAYER



PRICES ON APPLICATION.

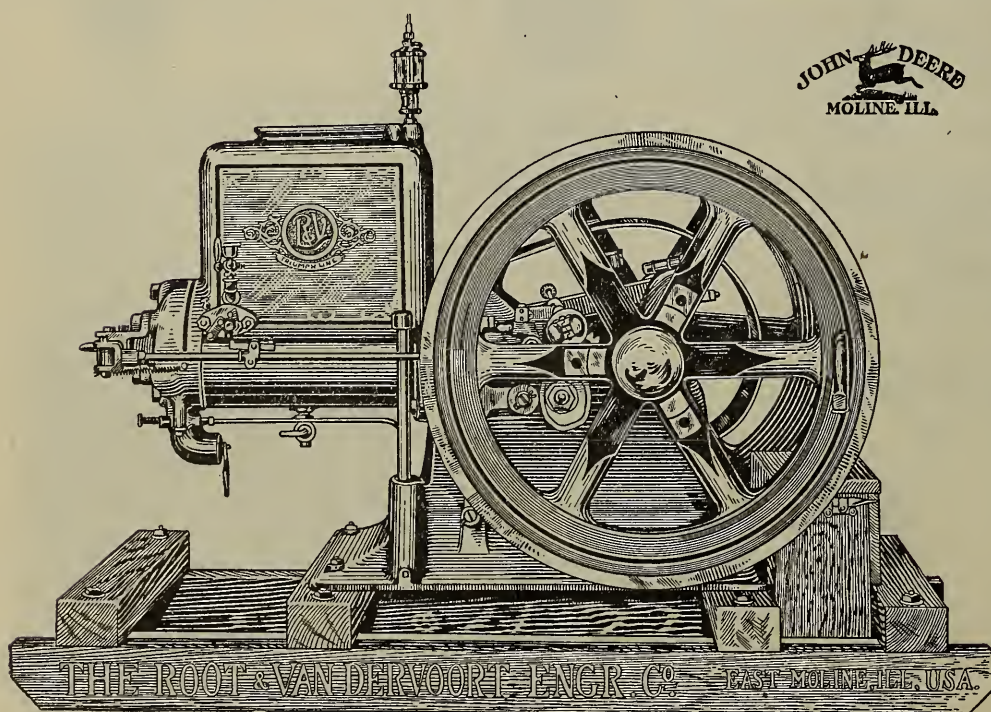
This is our 100-gallon machine, with extra strong frame to carry additional weight. Double acting pump supplied, unless otherwise specified. The highest pressure and continual action is preferable for machines of this capacity. In other respects this machine is the same as No. 102 and takes same attachments. They are equipped with strainer nozzle, etc.

Large acreages of potatoes demand quick work, and a machine that will cover six rows is worth all that it costs. It cuts the team travel one-third and you cover ground half as much again as with the four-row. The truck farmer will find another advantage for the six-row machine—where he grows tomatoes and peas, for instance, he can use one horse, extend his six-row bar, but use only four nozzles, so as to cover his tomatoes only.

The six-row attachment on this machine is practically the only change from No. 105D. Two levers slide out each section of spray pipe separately. By the use of two small gears in shifting, the outside nozzle moves three times as fast as the inner nozzles.

Width of rows can be 28, 30, 33, or 36 inches and wide bar will be furnished (at same price) to spray rows 42 inches apart down to 34.

"R & V" TRIUMPH HORIZONTAL ENGINES



Note the Starting Handle in Fly Wheel. No Loose Parts.

All Prices Subject To Change Without Notice

HIT-AND-MISS GOVERNING— HOPPER COOLED

This type of Engine has proven exceedingly practical for farm use. As a light, dependable and economical source of power its advantages and accessibility have made it one of the most popular of all the R & V line. Some of the leading features are:

DESIGN

We have studied and worked to produce an Engine second to none in strength, symmetry and beauty of outline, together with durability and smoothness in operation.

HOPPER COOLED

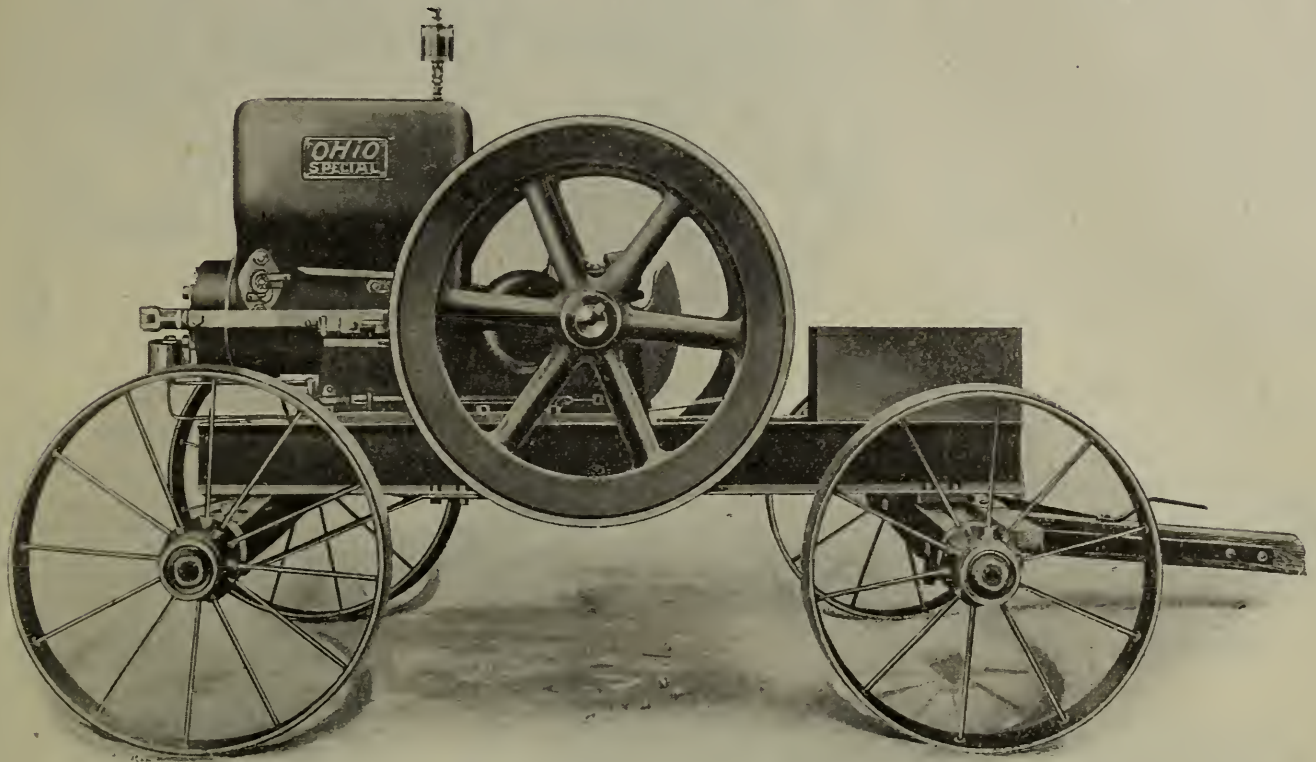
No tank, pump, piping or fittings required. No air-cooled engine troubles to contend with. Polar ice machine or Arctic oil may be used in place of water.

PRICES ON APPLICATION

THE MOST WONDERFUL ENGINE VALUE ON THE MARKET

MAGNETO OR BATTERY IGNITION

THE OHIO GASOLINE ENGINE

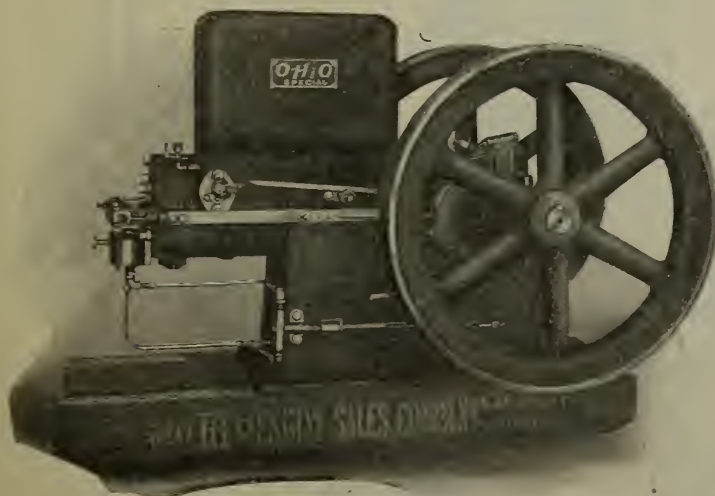


SOME POINTS OF INTEREST

When the Ohio Gas Engine was placed on the market some 15 years ago the scientific and practical knowledge of Gas Engine construction was limited. The Ohio Gas Engine, however, embodying the best practices of the time, was a successful Engine from the start. Since that time the development of the Gas Engine has been marvelous, as new methods of handling and igniting the mixture have been discovered, the chemical reactions better understood and more efficient mechanical construction worked out. Indeed, so rapid has been the advance that what were considered the most advanced ideas have, within a single year, been entirely abandoned and replaced by other methods by means of which the efficiency and reliability of the Gas Engine has been increased.

Fifteen years ago the Gas Engine was generally considered a convenient but extremely unreliable, unsteady and troublesome power, useful in small units only. Today it equals the steam engine in size and regulation and far surpasses it in reliability and economy.

During this period of evolution The Ohio Motor Company has kept fully abreast of the times and has not hesitated to make such changes in design and construction as would maintain the Ohio Gas Engine in the front rank. Changes have never been made, however, until thorough and prolonged trials have demonstrated an increased efficiency in the new construction over the old.



The Ohio Motor Company has always been conservative in its statements. In several catalogues we have issued we have endeavored to confine ourselves to simple, concise facts relative to the materials and methods employed in the manufacture of the Ohio Engine, avoiding all extravagant claims.

THE OHIO ENGINE

Is designed principally for service, and is so proportioned as to have ample strength in all its members, but at the same time consideration has been given to symmetry of design, so that the appearance of the Engine is neat and pleasing.

All parts that require adjustment for speed changes, such as ignitor, governor and fuel valves, are on the starting side of the Engine, where the operator can reach them easily and where he can see at a glance any working part that requires attention or adjustment.

Send for Special Catalogue.

OUR HANDY STEEL WHEEL FARM TRUCKS

All wood parts hardwood and well painted. Note the grooved tire, which protects the spokes of the wheel, and they last much longer than flat tire wheels. Made in two sizes. No. 22 with 3x9 skeins, capacity 3,000 pounds. No. 24 with 3½x10 skeins, capacity 4,000 pounds.

Both Nos. 22 and 24 Trucks have 28-inch front and 30-inch rear wheels, 4x¾ tires.

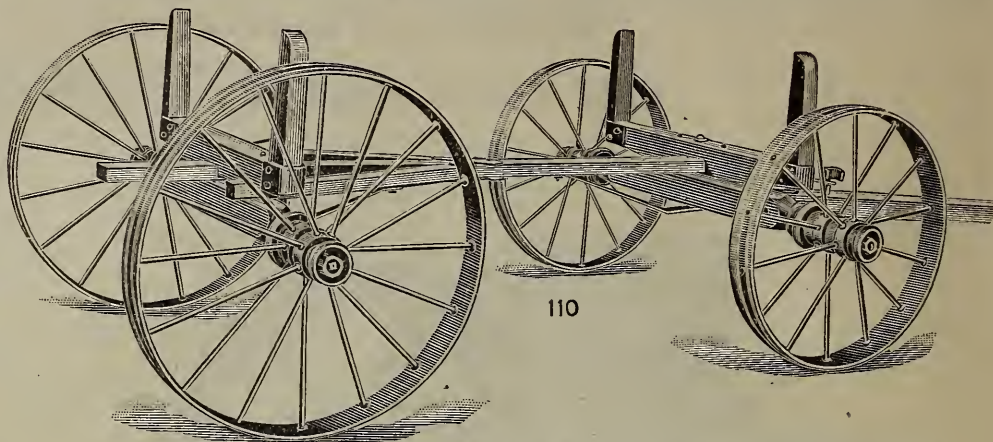
Weights—No. 22, 475 pounds; No. 24, 510 pounds.

Above Truck can be furnished with wood wheels. Price on application.

PRICES OF EXTRAS

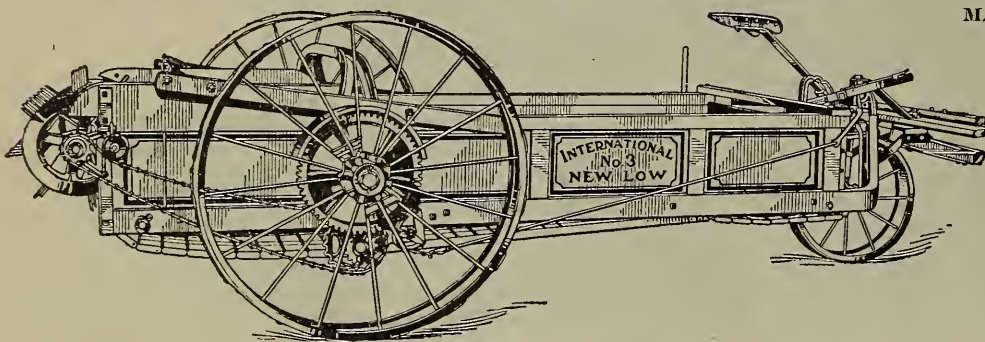
Brake—Price \$5.00.

Double Trees and Neck Yoke—Price, \$3.00.



Wood Hounds, Well Braced. Hickory Axles.

LOW 20th CENTURY HAS PLENTY OF CLEARANCE



MADE IN SIZES FOR EVERY FARM

The Low 20th Century spreader is strong because it is built of steel.

The main frame is steel braced with steel; both front and rear trucks are steel; all driving parts are steel; the controlling levers and even the seat is steel. The only wood entering into the construction of the Low 20th Century is in the sides of the box, the apron slats, the tongue and beater rails. The front trucks are built into the main frame—are practically a part of it. The main frame extension is narrowed to a small half circle over the center of the trucks. Into this is bolted the heavy steel king bolt plate. The plate in turn sets directly on and is bolted to the up-

per plate of the fifth wheel. Both the upper and lower plates of the fifth wheel are heavy and extra large. All the strain of a load—all the draw is on the steel main frame and on the steel axles. The axles are solid. The only holes through them are at the ends for the wheel pins, and for the differential in the rear axle on the beater side. All other parts attached to the axles are key seated. The axles are so strong that they will bear weight a great deal heavier than any load of manure that can be put upon them.

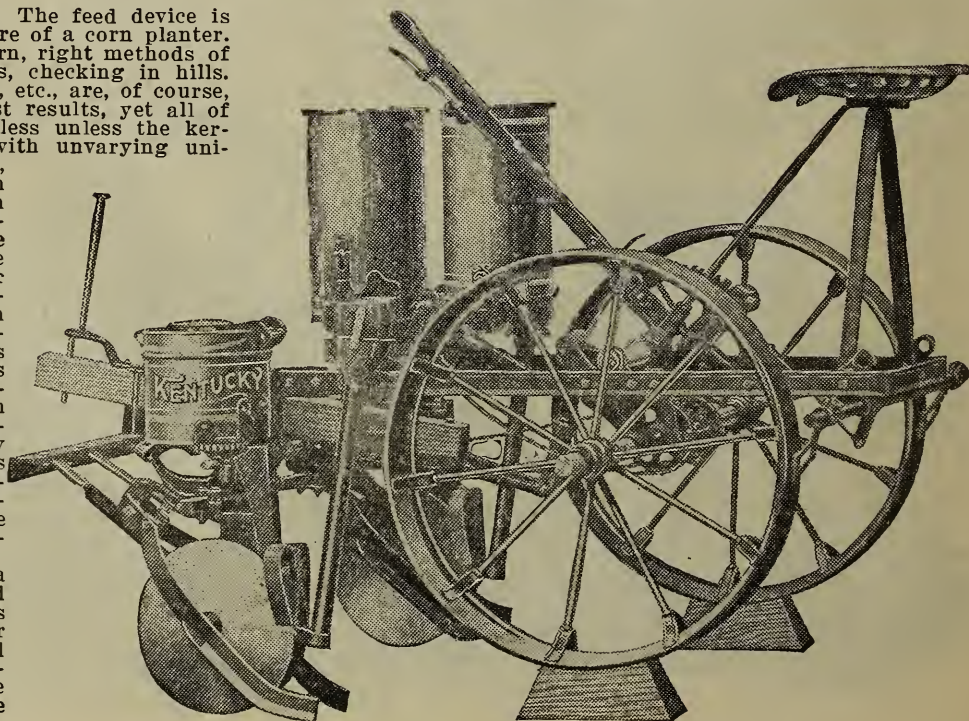
The Low 20th Century is built for service and durability. This is the reason for so much steel being put into it. A spreader with the main frame, trucks and axles all steel will stand up to its work and give the length of service that no other spreader will give. When money is invested in a spreader, a reasonable return in services is expected. The Low 20th Century insures a profitable investment. It will give years of service and do the work right.

PRICES ON APPLICATION.

KENTUCKY CORN PLANTERS

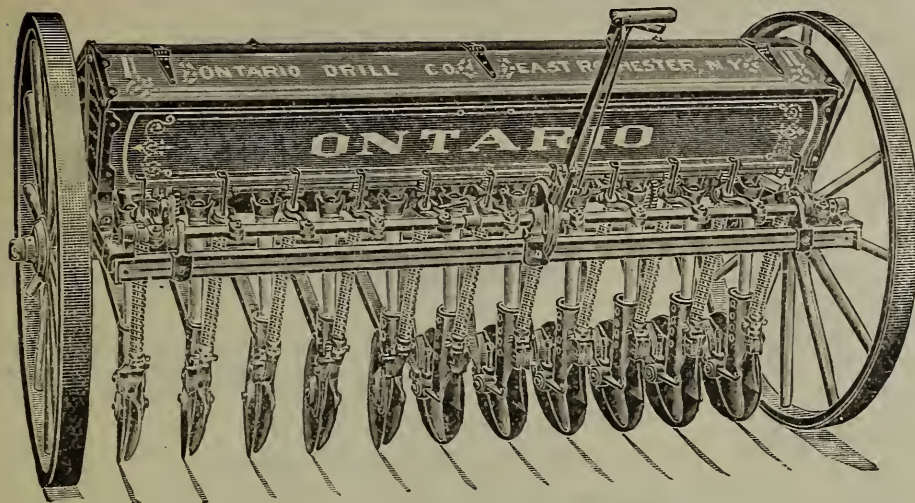
Planting corn is a serious business. The feed device is far and away the most important feature of a corn planter. While proper trenches to receive the corn, right methods of even covering, correct spacing in rows, checking in hills, dropping of right amounts of fertilizer, etc., are, of course, highly desirable and necessary for best results, yet all of these qualifications are practically useless unless the kernels are delivered from the hopper with unvarying uniformity and accuracy. It follows, then, that great care should be exercised in selecting a Planter which combines in the device for counting, great simplicity, durability and accuracy. No one of these three essentials should be made to excel at the expense of either or both of the other two. Hair trigger devices, "stop and start" motions, friction clutches, delicate seed rings easily broken and quickly worn, finely turned cams and a host of such flimsy contrivances may make for temporary accuracy during the first season's use, but such trifling combinations eliminate all semblance of simplicity, eradicate durability entirely, making constant adjustments of intricate parts and renewals of delicate wearing pieces a perpetual necessity. Something wrong all the time with such devices and their troubles increase with age.

The Kentucky is not so. It is "a planter that plants" field after field and year after year. No feed adjustments necessary or possible. The natural or flat selection of kernels is accomplished with a big plate and spring nose cut-off. These two simple parts complete the device. The plate is nearly nine inches in diameter. Both top and bottom are lathe-turned. The edge is also turned.



All Prices Subject To Change Without Notice

ONTARIO DRILLS



Special attention is called to the simplicity of the Ontario. This is first apparent when setting it up—it does not take an expert—and later, when working in the field it is especially noticeable. Complicated mechanism is often the cause of breakage. The mechanism of the Ontario is plain, simple and easily understood.

By reason of this simplicity and the true mechanical arrangement of the parts, great strength is obtained. This strength is further augmented by having many parts of steel and malleable iron. Where cast iron is used, such parts are heavy and strong at straining points.

The best of material is used throughout, it is put together in a workmanlike manner, and the whole is nicely painted with good paint. As a result, it presents a neat and finished appearance.

SOME FEATURES OF THE "ONTARIO"

It is built of the best material by skilled workmen, and no drill is better finished.
It is built strong and durable and will stand the hardest usage.
It has wood bed piece.
It has anti-friction roller bearings.
It is positively much lighter draft than any other drill of recognized merit. No cumbersome mechanism.
It is properly balanced. No neck weight. It saves horse flesh.
It has the most accurate, even sowing, double force feed distributor of any drill on the market.
It plants beans, corn, peas, beets, etc., without putting on special distributors.

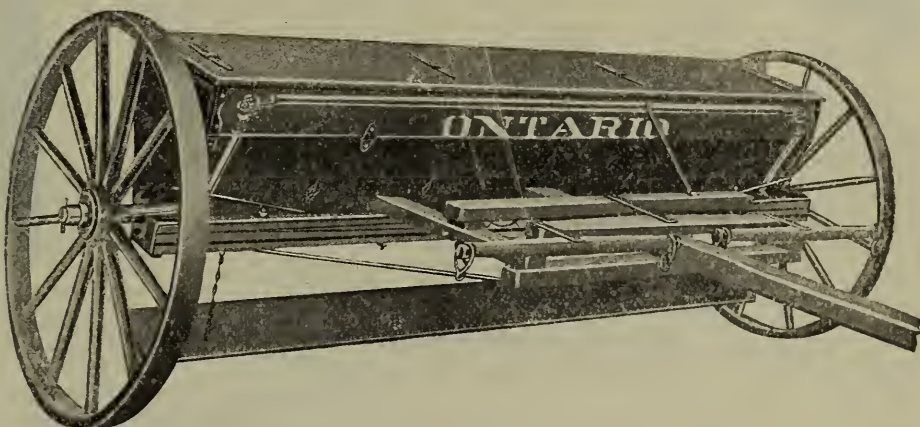
It has the famous EVERETT fertilizer force feed. Acknowledged to be the leader of them all, and is the original device from which all so-called star feeds are copied.
It has grain and fertilizer hoppers of large capacity.
It has strong, simple cog gear speed devices, with wide range of quantities. No loose gears.
It has double force feed grass seed distributors, the same as grain distributors.
It has a large size continuous steel axle.
It has a broad wheel tread, and wheels that track right, either and both of which are drivers.
It has the best hub ever put on a grain drill.

LIGHT DRAFT—PERFECT BALANCE

Here again the simple construction is brought into prominence, for in a very great measure lightness of draft is due to simplicity of driving mechanism. But further than this, axle is heavy enough to support drill without bending; the wheels have a broad tread; the hubs have not only long bearings, but of more importance, support the weight of the drill over their centers; the axle boxes have roller bearings; there are few bearings and they are bored true.

The hitch is located at a point beneath the pole, on a line which passes through the hame staple and the average point of resistance of the hoes or discs in the ground, and the drill being well balanced, there is no neck weight.

It is due to the perfect combination of all these features in the Ontario that in lightness of draft it excels any drill in the world of recognized merit.



KENTUCKY No. 1 BROADCAST FERTILIZER AND LIME SOWER



The Kentucky No. 1 broadcast fertilizer and lime sower meets the growing demand for a thoroughly good machine for top dressing with commercial fertilizer, lime, land plaster and all materials which are distributed in large quantities per acre. Because of the frequently wet and pasty condition of commodities sown, it is necessary to have a machine of unusual strength and durability. Kentucky No. 1 hoppers are made with heavy cast ends, steel bottom and wood sides, reinforced with metal cleats, all firmly bolted and tied. Wheels are 44 inches in diameter, of high grade steel, with 4-inch tires.

Each machine is provided with a substantial screen of No. 18 galvanized wire, with 1/2-inch mesh. All commodities to be broadcasted should pass through the sieve to remove stones, nails, etc. Capacity of hopper is 8 bushels, the screen

2 bushels, making a carrying capacity of 10 bushels. Commercial fertilizer, dry, weighing 55 pounds per bushel, may be distributed in quantities 108 to 7453 quarts per acre or 185 to 8175 pounds. Hydrate of Lime, 45 lbs. per bushel, 53 to 3766 pounds, etc.

The agitator feed reel revolves in circular bottom, the diagonal feed wheels moving material sown back and forth over outlets. All bearings are fitted with removable sleeves.

Quantities are set by two levers, one on each end of hopper. Each quantity rack has 21 notches. Scattering boards are attached beneath the feed outlets.

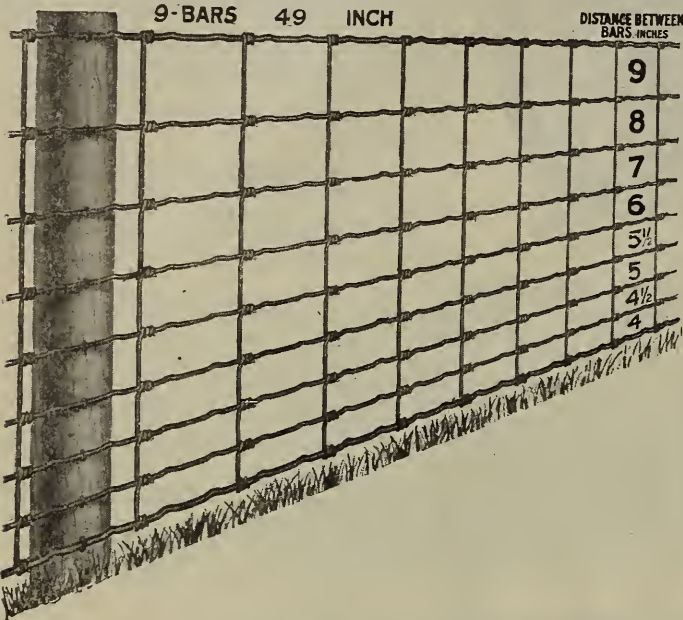
All Prices Subject To Change Without Notice

AMERICAN FARM FENCE

Made of large, strong, high grade steel wires, heavily galvanized. Amply provides for expansion and contraction. Is practically everlasting. Never goes wrong, no matter how great a strain is put upon it. Does not mutilate nor injure stock.

TURNS CATTLE, HORSES, HOGS AND PIGS

Every Rod Guaranteed by us and guaranteed by the manufacturers. Call and see it. We can show you how it will save you money and fence your fields so they will stay fenced.



MATERIAL

Hard, Stiff Steel—The development of American Fence, the years of experiment and hundreds of thousands of dollars that have been put into the work of perfecting machinery and producing the grade of special steel that makes American Fence what it is today, would be a long story. Suffice it to state that about one year ago we succeeded in producing a composition in steel that for fence making is simply par excellence. By the use of this special steel the value of American Fence to the user is increased many fold, and we firmly believe it to be as near absolute perfection as can be attained, or the necessities of the case demand. Wire drawn from this steel, while hard, is not brittle. It is stiff and springy, but pliable enough to be nicely spliced. There is such a distinction as live steel and dead steel. Every wire in American Fence as now made is a live wire, doing business all the time, always ready for emergencies and absolutely reliable.

Design	Bars	Height	Stays	Prices On Application
726	7	26 inch	6 inch.....	
726	7	26 inch	12 inch.....	
635	6	35 inch	12 inch.....	
845	8	45 inch	12 inch.....	
949	9	49 inch	12 inch.....	
1149	11	49 inch	12 inch.....	
2053	20	53 inch	6 inch.....	
2158	21	58 inch	6 inch.....	

In the above designs the No. 9 wire is used for top and bottom bars, No. 11 wire for intermediate bars and stays, excepting No. 2158 and No. 2053, a description of which you will find in Poultry Requisites.

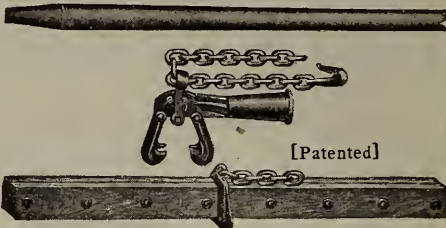
Should you desire any other style Fence, write for booklet.

CYCLONE ORNAMENTAL GALVANIZED
LAWN FENCE

The Style F Cyclone Lawn Fence is considered by us the most attractive and most practical pattern made by the factory, and we catalogue this style exclusively. The manufacturers make a number of other styles, special circulars of which we will be pleased to send you on application. The characteristic features of Cyclone Fence are the careful uniformity of the weaving, the full-gauge wires which are used, the extra deep crimping of picket wires, which adds greatly to the beauty and strength of fence, the secure manner in which these pickets are locked in the double cable wires and the general strength of the whole fabric. The wire is carefully selected, and all of these features count for the extra lasting qualities of Cyclone Fence. With every full roll of Cyclone Fence, a fence stretcher is furnished gratis. The lawn, the yard and the home are given the appearance of comfort and attractiveness by the use of a first-class wire fence, and from a sanitary and healthful standpoint, a wire fence is far more desirable than the old style board fence.

Prices on Other Size Walk, Single-Drive and Double-Drive Gates Furnished on Application.

THE LOTT STRETCHER



The simplest, cheapest and most efficient tool ever gotten out for stretching fence. It is strong enough to stretch from 10 rods to a mile of fence at a time. Anybody can operate it. Price, \$7.25.

POST-HOLE DIGGER.—(See Index.)

TOWNSEND WIRE STRETCHER.—85c.

WIRE STAPLES.—Broad or narrow.

BARB AND

RIBBON WIRE.—Prices on application.

AMERICAN WALK GATE (Fig. 1)

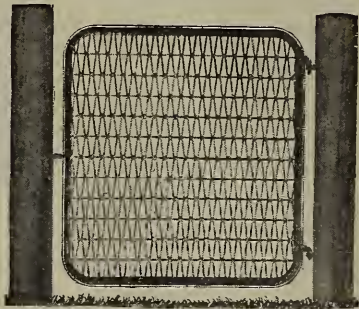


Fig. 1.

3 feet x 50 inches.....	\$3.00
4 feet x 42 inches.....	3.25
4 feet x 50 inches.....	3.75
5 feet x 50 inches.....	5.50

AMERICAN SINGLE-DRIVE GATE

(Fig. 2)

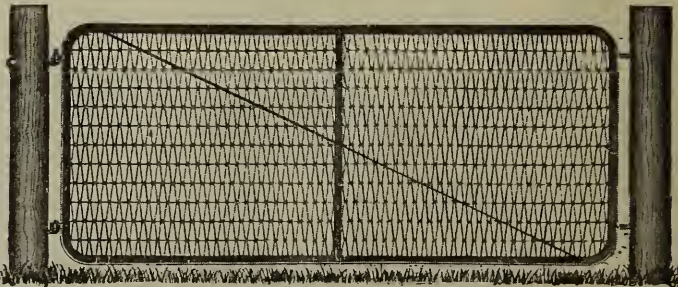
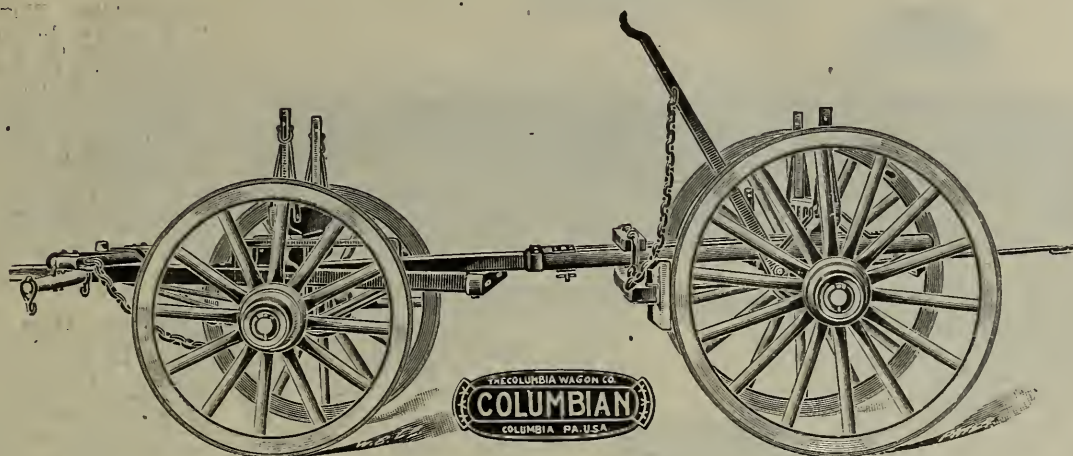


Fig. 2.

10 feet x 50 inches.....	\$8.00
12 feet x 42 inches.....	8.25
12 feet x 50 inches.....	8.50
14 feet x 50 inches.....	9.00

"OUR" SPECIAL HIGH GEAR WHEEL

PRICES ON APPLICATION



These Wagons furnished with Linch Pin or Nut Axles.

SEND FOR SPECIAL CATALOGUE

DIMENSIONS OF OUR SPECIAL HIGH WHEEL GEARS

Built with solid steel or wood axles with steel skeins only. Slip and half-stiff tongues only.

Always state style of axles wanted.

No.	Size of Steel Axle	Size of Wood Axle Steel Skein	Height of Wheels		Low Wheels		Size of Tire	Carrying Capacity
			Front	Hand	Front	Hand		
444	1 3/4	3 1/4 x 10	3 ft. 8 in.	4 ft. 5 in.	3 ft. 3 in.	3 ft. 10 in.	1 3/4 x 5 3/8	4,500 lbs.
445	2	3 1/2 x 11	3 ft. 8 in.	4 ft. 5 in.	3 ft. 3 in.	3 ft. 10 in.	2 x 5 3/8	6,500 lbs.
446	2 1/4	3 3/4 x 12	3 ft. 8 in.	4 ft. 5 in.	3 ft. 3 in.	3 ft. 10 in.	2 1/2 x 5 3/8	9,000 lbs.
447	2 1/2	4 x 12	3 ft. 8 in.	4 ft. 5 in.	3 ft. 3 in.	3 ft. 10 in.	2 1/2 x 1	10,000 lbs.
448	2 3/4	.....	3 ft. 8 in.	4 ft. 5 in.	3 ft. 3 in.	3 ft. 10 in.	2 1/2 x 1	12,000 lbs.
449	3	.....	3 ft. 8 in.	4 ft. 5 in.	3 ft. 3 in.	3 ft. 10 in.	3 x 1	15,000 lbs.

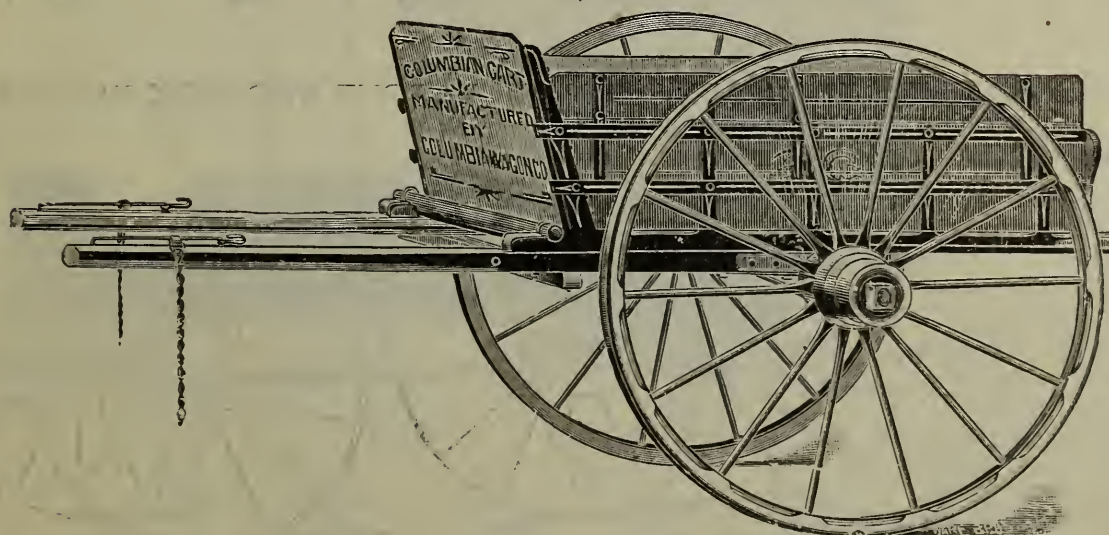
ORDER BY NUMBER

This line of gears is built especially for rough, hilly countries for heavy hauling. We use specially selected materials, best wheel stock and heavily ironed.

We use our special combination brakes on this line of gears.

A strictly first-class line.

FARM AND CONTRACT CARTS



Our Carts are built of hardwood, good dry stock. Bodies have 6-in. top sides. Wood hub wheels. The sizes we mention are those most popular with our trade, but we can furnish any size desired. The Carts are nicely finished and handsomely painted. They have but to be seen in comparison with others to be appreciated.

No. 38. FARM CART—1 1/2-in. axle, 2 x 1/2 in. tire; body, 3 ft. wide, 5 ft. 1 in. long, 11 in. deep, without top sides; capacity 1,000 lbs. Price on Application.

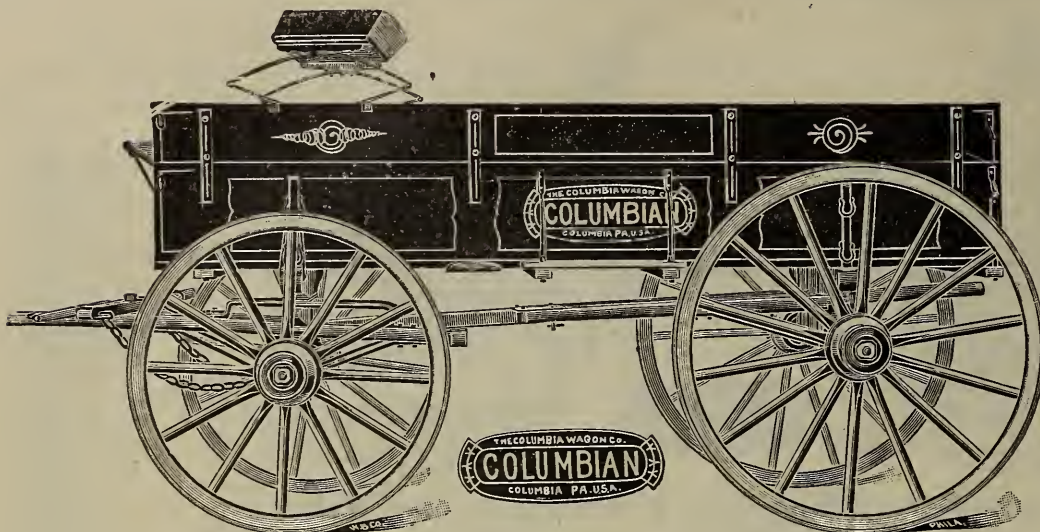
No. 41. FARM OR LAWN CART—1 1/4-in. axle, 4 x 1/2 in. tire; body, 3 ft. wide, 5 ft. 4 in. long, 12 in. deep. Price on Application.

No. 42. CONTRACT CART—2-in. axle, 3 x 1/2 in. tire; body, 3 ft. 1 in. wide, 5 ft. 10 in. long, 13 in. deep, without top sides; capacity, 2,000 lbs. Prices on Application.

All Prices Subject To Change Without Notice

COLUMBIAN WAGONS

Solid Steel Axles, Steel Skeins or Cast Skeins, Wound Hounds



Columbian Wagons are too well known in this section to need much of an introduction. For 15 years they have been furnished to our trade, and our increasing sales testify to their popularity. The secret of the success of the Columbian Wagons is real worth, real merit and a first-class wagon of the proper pattern. If you have had no personal experience with these Wagons, ask the people who have them how they like the Columbian. It will pay you to find out about them before buying a wagon.

We have these Wagons built especially to meet the requirements of the trade in this locality. All materials thoroughly air-dried. Every portion of the woodwork of our gears and wheels made waterproof by being saturated in boiled linseed oil. Axles, best quality gun metal steel (fully guaranteed against breakage), and 6-year dry hickory axles, fitted with either steel or cast skeins, best in

the market. Our hubs are New York State Black Birch, Spokes, best Pennsylvania White Oak, best XX Pennsylvania and Eastern White Oak. Bodies, best grade Yellow Poplar.

No.	Size of Axles		Size of Tire	Width of Body	Length of Body	Carrying Capacity	Shipping Weight	
	Solid Steel	Steel Skein						
302	1½	2¾ x 8	2 in. x ½ in.	3 ft. 6 in.	9½ ft.	2500	700	} Prices On Application.
303	1⅝	3 x 9	3 in. x ½ in.	3 ft. 6 in.	10 ft.	3500	900	
304	1¾	3¼ x 10	4 in. x ⅝ in.	3 ft. 8 in.	10½ ft.	4500	1000	
305	2	3½ x 11	4 in. x ¾ in.	3 ft. 8 in.	11 ft.	6500	1100	

If wanted without beds, deduct \$10.00. Rear Ratchet Brake extra. \$5.00.

COLUMBIAN WAGONS WITH WOOD AXLES AND CAST SKEINS

No.	Size of Axles	Size of Tire	Width of Body	Length of Body	Carrying Capacity	Shipping Weight	
72	2¾ x 8	2 in. x ½ in.	3 ft. 6 in.	9½	2200	700	} Prices On Application.
73	3 x 9	3 in. x ½ in.	3 ft. 6 in.	10	3000	900	
74	3¼ x 10	4 in. x ¾ in.	3 ft. 6 in.	10½	4000	1000	

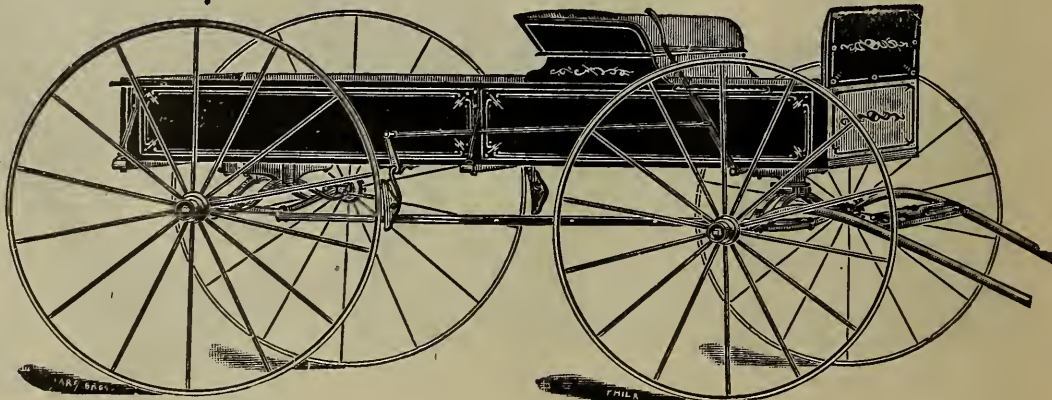
OUR COLUMBIAN DUPLEX-SPRING RUNABOUT AND MILK WAGON

ORDER BY NUMBER

This line of runabout or milk wagons we build with dash, as shown in cut, or with foot board in place of dash, if wanted, at same price.

We use Warner or Sarven patent wheels, riveted rims, double-collar steel axles, oil-tempered springs. We build these with 5 feet or 4 feet 8 inch tracks; odd tracks at an additional cost. Brakes extra. We also furnish an extra seat at an additional price. Extra length and width bodies at an additional cost. Flare boards furnished at an extra charge.

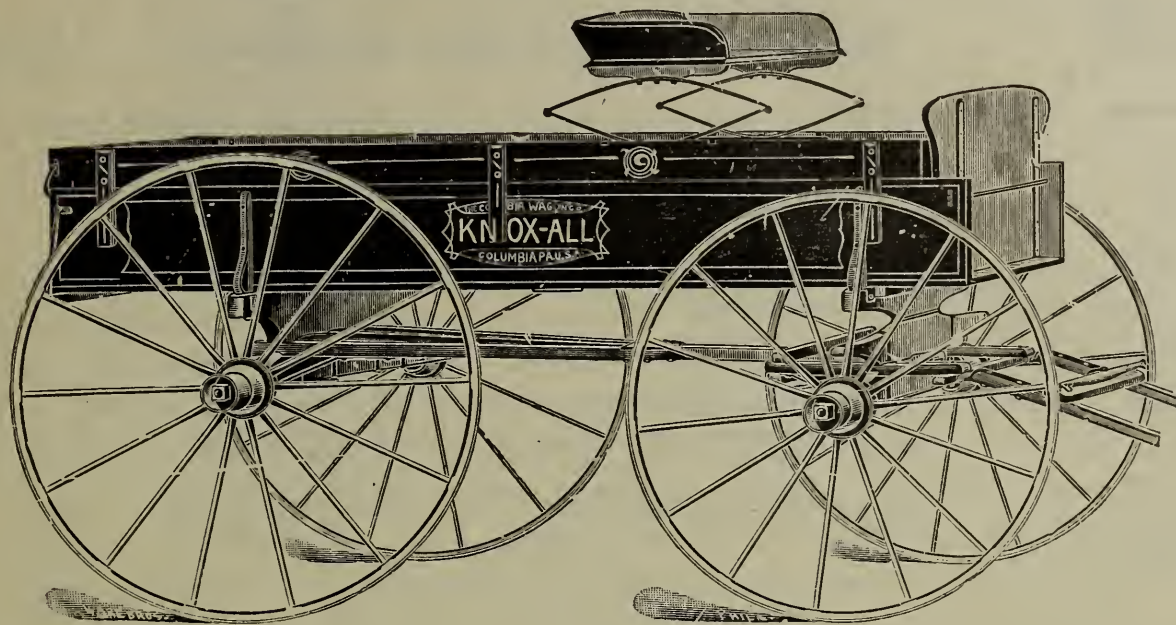
COLUMBIAN WAGONS ARE
DESERVEDLY POPULAR



No.	Size of Axle	Height of Wheels		Size of Tires	Length of Body Inside	Width of Body Inside	Carrying Capacity
		Front	Hind				
85	1	3 ft. 4 in.	3 ft. 8 in.	1 x ¼	6½ ft.	3 ft.	800 lbs.
85	1⅛	3 ft. 4 in.	3 ft. 8 in.	1⅛ x ¼	7 ft.	3 ft.	1000 lbs.
85	1¼	3 ft. 4 in.	3 ft. 8 in.	1¼ x 5/16	8 ft.	3 ft.	1200 lbs.

All Prices Subject To Change Without Notice

KNOX-ALL ONE-HORSE WAGON

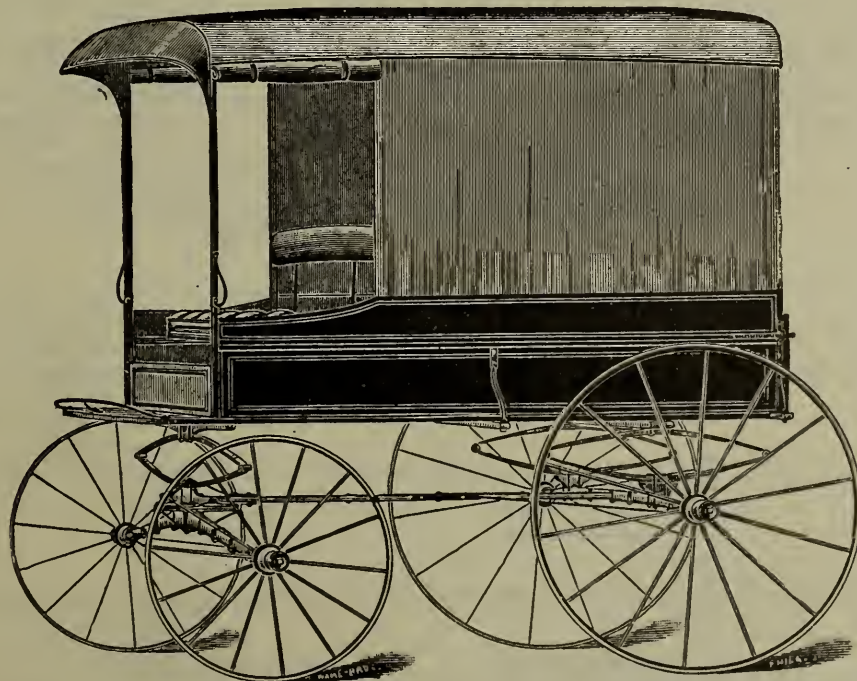


This wagon has established a reputation of which we are justly proud. 1 1/4-in. steel axles. Warner wheels, 3 ft. 6 in. and 4 ft. high. Tires, regular, 1 1/4 x 5/16 in. Body, 9 ft. long, lower box 10 in., top box 4 in., 3 ft. 6 in. wide. We call attention to the fact that the body of this wagon is 1 ft. longer than on most One-horse Wagons. These Wagons have the front hounds arranged that a drop tongue can easily be fitted. Prices on Application.

No. 2.—ONE-HORSE WAGON

Similar to above, but with 1 3/8-in. axles and 2-in. tires. Capacity, 1,800 lbs. Prices on Application.

OUR SPECIAL TRUCK GARDENERS' MARKET WAGON



Warner or Sarven patent wheels, No. 1 grade, full riveted rims. Double collar axles. Three-spring gear. Also hung on duplex springs if desired. Trimmed with black enamel oiled back duck curtains tacked down tight. Drop end gate and roll-up curtains at front and rear.

A very popular and desirable wagon for the country districts.

We can furnish this style wagon in any size or capacity.

Send for Catalogue and Prices.

All Prices Subject To Change Without Notice

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WISDOM BRAND FERTILIZER

Rock

Wheat and Corn Fertilizer

Kainit

AGRICULTURAL HYDRATED LIME

Is 96% to 97% pure. Professor Fippin of Cornell University says: "That for fertilizer, 60 pounds Hydrated Lime produces same results as 100 pounds of Air Slaked or 250 pounds of Ground Rock Lime." 85% of Hydrated Lime will pass through a 200-mesh screen, is the strongest rectifier of impure soils, produces greatest results, and is the best for drilling. Every impurity is taken out of Agricultural Hydrated Lime. There is no core.

Prices—In paper bags, carload lots f. o. b. factory; prices on application. In paper bags, ton lots f. o. b. Baltimore; prices on application. In burlap bags, 100 lbs., \$1.00 per bag. In paper bags, 40 lbs., 50c per bag. Ground Limestone also carried in stock; prices on application.

HARDWOOD ASHES

UNLEACHED—Most excellent for lawn dressing or orchards. Apply late in the Fall or early Spring, in order that the rains may leach the ashes and carry the elements down to the roots of the trees or grass. The ashes are in proper condition for immediate use. Apply at a rate of 1,000 to 1,500 lbs. per acre.

Prices—100 lbs., \$1.50. Barrel, \$2.50. Ton, \$18.00.

**Annual
Ammoniated
Fruit
and Potato
Grower**

SOFT GROUND BONE

Made from softer material than the regular "Ground Bone," and contains some little meat and blood. The great objection to the use of Pure Bone (the price) no longer prevents its use by any one wanting to restore wornout land. Try it and be convinced.

Prices—5-lb. package, 25c. 10-lb. package, 40c. Per bag (200 lbs.), \$3.50. Per ton, \$35.00.

PULVERIZED SHEEP MANURE

This is purely a natural and most nutritious plant food, clean to handle, and its effect is immediate and lasting. There is nothing better to mix with soil for potting plants. Florists who use it extensively advise mixing about one-seventh manure and six-sevenths soil. As a top dressing for lawns it is unequalled.

Prices—5 lbs., 25c. 10 lbs., 40c. 30 lbs., \$1.00. 50 lbs., \$1.25. 100 lbs., \$2.00. Special prices in tons, half tons, or carload.

Nitro Soda Blood, Bone and Potash Land Plaster

SPECIAL STRAWBERRY TOP DRESSER

GARDEN AND *FIELD SEEDS*

*FERTILIZERS,
FARM
IMPLEMENTS,
GASOLINE
ENGINES.*



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OF 1918*



WISEMAN-DOWNS Co., INC.

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